

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

FORM APPROVED
OMB NO. 1040-0138
Expires: February 28, 1995

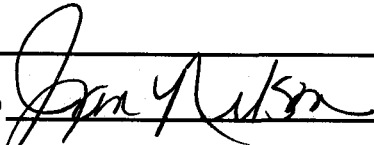
APPLICATION FOR PERMIT TO DRILL OR DEEPEN

| | | |
|---|--|--|
| TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. UTU-0140740 |
| TYPE OF WELL <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> SINGLE <input checked="" type="checkbox"/> MULTIPLE OIL WELL GAS WELL OTHER ZONE ZONE | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE TRIBE |
| 2. NAME OF OPERATOR QEP UINTA BASIN, INC. | | 7. UNIT AGREEMENT NAME GYPSUM HILLS |
| 3. ADDRESS 11002 E. 17500 S. Vernal, Ut 84078 | | 8. FARM OR LEASE NAME, WELL NO. GH 6MU-20-8-21 |
| Contact: Jan Nelson E-Mail: jan.nelson@questar.com | | 9. API NUMBER: 43-047-38662 |
| Telephone number Phone 435-781-4331 Fax 435-781-4323 | | 10. FIELD AND POOL, OR WILDCAT GYPSUM HILLS 10 |
| 4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*) At Surface 620917X 1956' FNL 1688' FWL SENW SECTION 20 T8S R21E At proposed production zone 4440775Y 40-110489 -109.581211 | | 11. SEC., T, R, M, OR BLK & SURVEY OR AREA SEC. 20, T8S, R21E Mer SLB |
| 14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE* 7 +/- SOUTHEAST OF OURAY, UTAH | | 12. COUNTY OR PARISH Utah |
| 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (also to nearest drig, unit line if any) 1688' +/- | | 13. STATE UT |
| 16. NO. OF ACRES IN LEASE 800.00 | | 17. NO. OF ACRES ASSIGNED TO THIS WELL 40 |
| 18. DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft | | 20. BLM/BIA Bond No. on file ESB000024 |
| 21. ELEVATIONS (Show whether DF, RT, GR, ect.) 4680.8' GR | | 22. DATE WORK WILL START ASAP |
| 23. Estimated duration 10 days | | |
| 24. Attachments | | |

The following, completed in accordance with the requirments of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan
3. A surface Use Plan (if location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an exisiting bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

SIGNED



Name (printed/typed) Jan Nelson

DATE 9-18-06

TITLE

Regulatory Affairs

(This space for Federal or State office use)

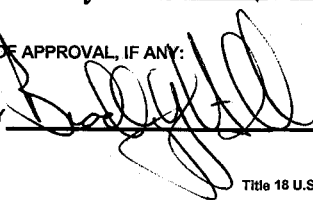
PERMIT NO.

43-047-38662

APPROVAL DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY



TITLE

BRADLEY G. HILL
ENVIRONMENTAL MANAGER

*See Instructions On Reverse Side

DATE

09-27-06

Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any mater within its jurisdiction

Federal Approval of this
Action is necessary

! CONFIDENTIAL

RECEIVED

SEP 26 2006

DIV. OF OIL, GAS & MINING

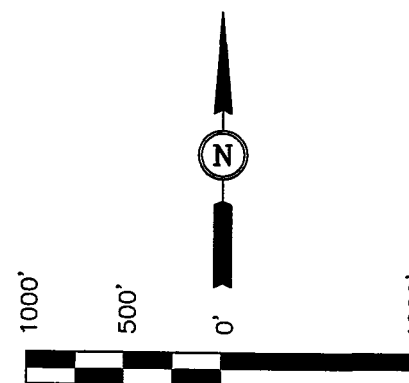
T8S, R21E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

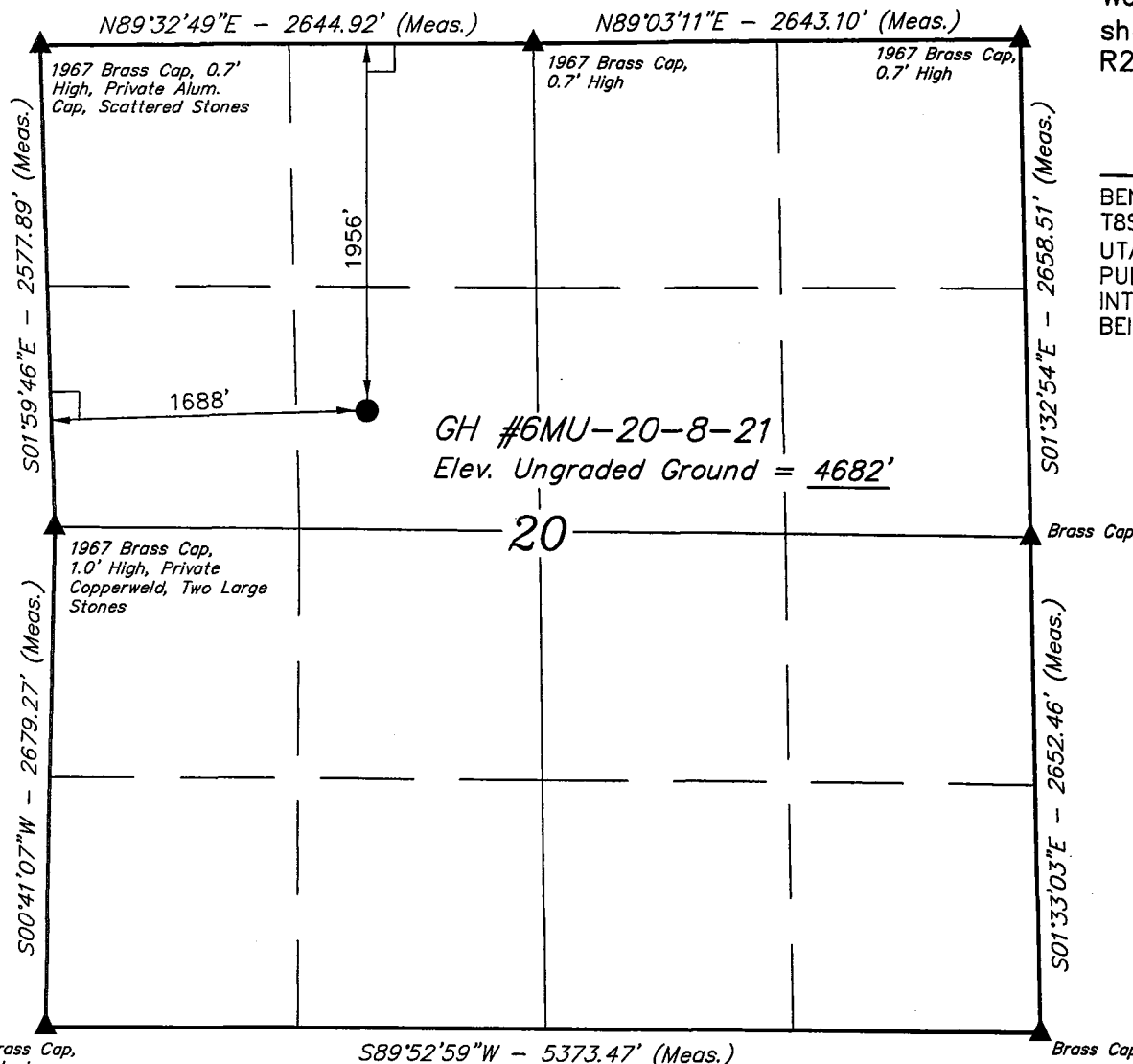
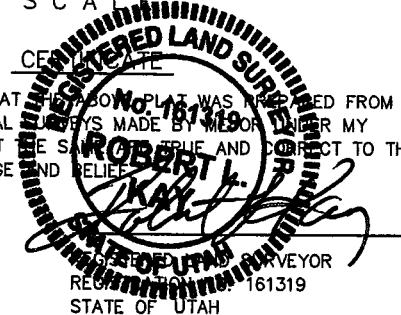
Well location, GH #6MU-20-8-21, located as shown in the SE 1/4 NW 1/4 of Section 20, T8S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°06'37.69" (40.110469)
LONGITUDE = 109°34'53.88" (109.581633)
(NAD 27)
LATITUDE = 40°06'37.82" (40.110506)
LONGITUDE = 109°34'51.39" (109.580942)

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

| | | |
|-------------------------|--------------------------------|-------------------------|
| SCALE 1" = 1000' | DATE SURVEYED: 04-27-06 | DATE DRAWN: 05-03-06 |
| PARTY D.A. T.B. C.G. | REFERENCES G.L.O. PLAT | |
| WEATHER COOL | FILE QUESTAR EXPLR. & PROD. | |

Additional Operator Remarks

QEP Uinta Basin, Inc. proposes to drill a well to 11,725' to test the MesaVerde. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements"

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

Please be advised that QEP Uinta Basin Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is QEP Uinta Basin Inc. via surety as consent as provided for the 43 CFR 3104.2.

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. **Formation Tops**

The estimated tops of important geologic markers are as follows:

| <u>Formation</u> | <u>Depth, TVD</u> |
|-------------------------|--------------------------|
| Uinta | Surface |
| Green River | 2,460' |
| Wasatch | 5,971' |
| Mesaverde | 9,225' |
| Sego | 11,620' |
| TD | 11,725' |

2. **Anticipated Depths of Oil, Gas, Water and Other Mineral Bearing Zones**

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

| <u>Substance</u> | <u>Formation</u> | <u>Depth, TVD</u> |
|-------------------------|-------------------------|--------------------------|
| Gas | Wasatch | 5,971' |
| Gas | Mesaverde | 9,225' |

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right # A36125 (which was filed on May 7, 1964,) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash

DRILLING PROGRAM

Central Battery Disposal Site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment:

- A. 5,000 psi W.P. Double Gate BOP, 5,000 psi annular (schematic attached)
- B. Functional test daily
- C. All casing strings shall be pressure tested (0.22 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- D. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 5M system and individual components shall be operable as designed.

4. Casing Program

| Hole Size | Casing Size | Top (MD) | Bottom (MD) | Weight | Grade | Thread | Cond. |
|-----------|-------------|----------|-------------|--------|-------|--------|-------|
| 20" | 14" | surface | 40' | Steel | Cond. | None | Used |
| 12-1/4" | 9-5/8" | surface | 450' | 36.0 | J-55 | STC | New |
| 8-3/4" | 7" | surface | 7,800' | 26.0 | K-55 | LTC | New |
| 6-1/8" | 4-1/2" | surface | 11,725' | 11.6 | P-110 | LTC | New |

| Casing Strengths: | | | | Collapse | Burst | Tensile (minimum) |
|-------------------|----------|-------|-----|-----------|------------|-------------------|
| 9-5/8" | 36.0 lb. | J-55 | STC | 2,020 psi | 3,520 psi | 394,000 lb. |
| 7" | 26.0 lb. | J-55 | LTC | 4,320 psi | 4,980 psi | 367,000 lb. |
| 4-1/2" | 11.6 lb. | P-110 | LTC | 7,580 psi | 10,690 psi | 279,000 lb. |

DRILLING PROGRAM

5. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – no
- C. Monitoring equipment on the mud system – visually and/or PVT/Flow Show
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
- F. If drilling with air the following will be used:
- G. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.
- H. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500').
- I. Compressor shall be tied directly to the blooie line through a manifold.
- J. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 11.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

DRILLING PROGRAM

6. **Testing, logging and coring program**

- A. Cores – none anticipated
- B. DST – none anticipated
- C. Logging – Mud Logging – 1500' to TD
GR-SP-Induction, Neutron Density
- D. Formation and Completion Interval: Green River/Wasatch/MesaVerde interval, final determination of completion will be made by analysis of logs.
Stimulation: Stimulation will be designed for the particular area of interest as encountered.

7. **Cementing Program**

14" Conductor:

Cement to surface with construction cement.

9-5/8" Surface Casing: sfc - 450' (MD)

Lead/Tail Slurry: 0' – 450'. 240 sks (280 cu ft) Premium AG cement + 2% CaCl_2 + 0.25 lb/sk celloflake. Slurry wt: 15.8 ppg, Slurry yield: 1.17 ft³/sk, Slurry volume: 12-1/4" hole + 100% excess.

7" Intermediate Casing: sfc - 7,800' (MD)

Lead Slurry: 0' – 5,500'. 315 sks (1215 cu ft) Halliburton Hi-Fill cement. Slurry wt: 11.0 ppg, Slurry yield: 3.86 ft³/sk, Slurry volume: 8-3/4" hole + 50% excess in open hole section.

Tail Slurry: 5,500' – 7,800'. 420 sks (520 cu ft) of 50/50 Poz Premium AG + 2.0% Bentonite + 0.6% Halad (R)-322 fluid loss + 2.0% Microbond M expander + 5% salt + 0.25 lb/sk Flocele. Slurry wt: 14.35 ppg, Slurry yield: 1.24 ft³/sk, Slurry volume: 8-3/4" hole + 50% excess.

4-1/2" Production Casing: sfc – 11,725' (MD)

Lead Slurry: 0' - 5,500'. 150 sks (575 cu ft) Halliburton Hi-Fill cement + 16% Bentonite + 0.75% Econolite + 3% salt + 0.8% HR-7 retarder. Slurry wt: 11.0 ppg, Slurry yield: 3.84 ft³/sk, Slurry volume: 4-1/2" casing inside 7" casing.

Tail Slurry: 5,500' – 11,725'. 765 sks (950 cu ft) of 50/50 Poz Premium AG + 2.0% Bentonite + 0.6% Halad (R)-322 fluid loss + 2.0% Microbond M expander + 5% salt + 0.2% HR-5 retarder + 0.25 lb/sk Flocele. Slurry wt: 14.35 ppg, Slurry yield: 1.24 ft³/sk, Slurry volume: 6-1/8" hole + 20% excess in open hole section.

DRILLING PROGRAM

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 7010 psi. Maximum anticipated bottom hole temperature is 225° F.

5M BOP STACK

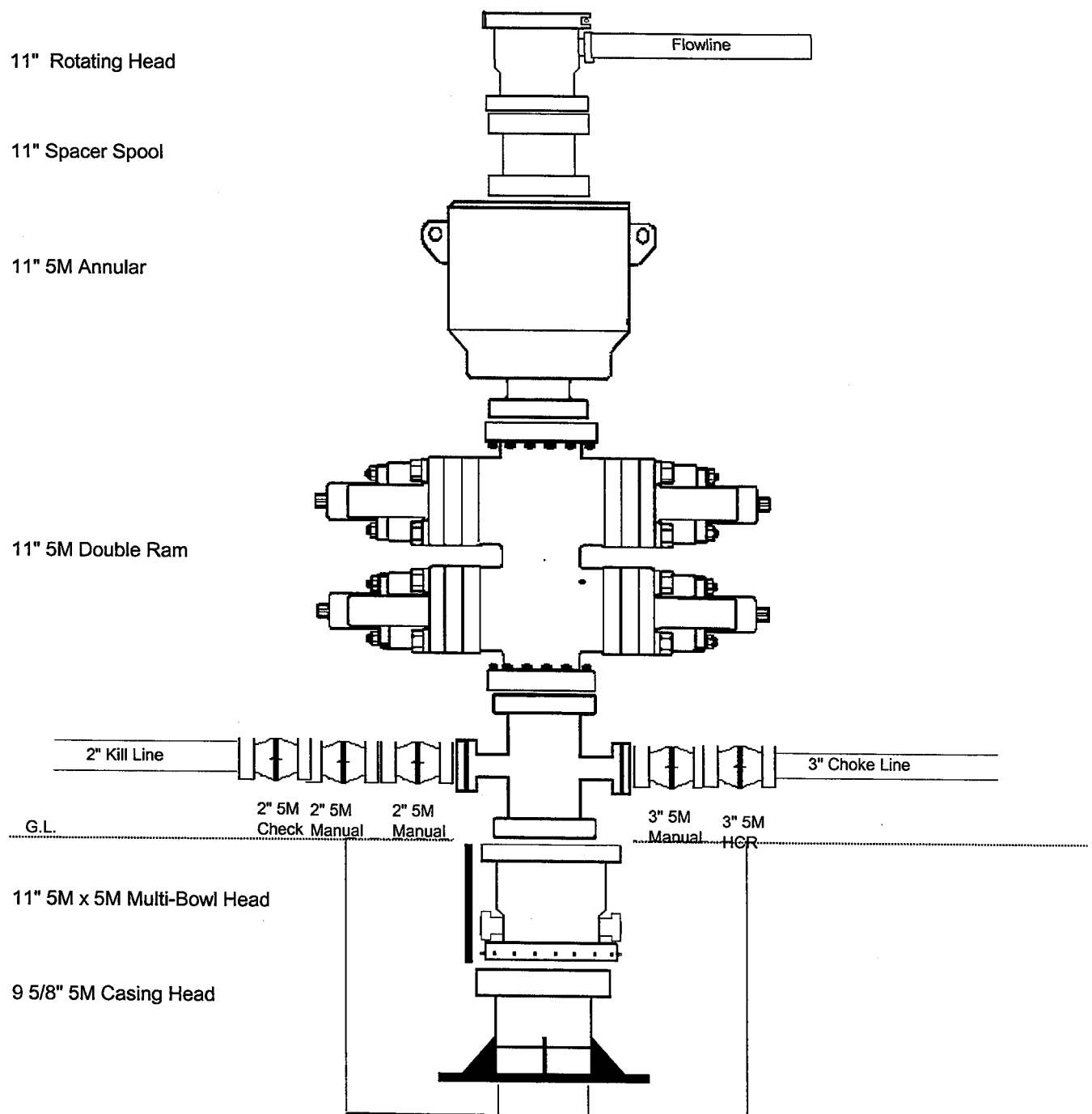
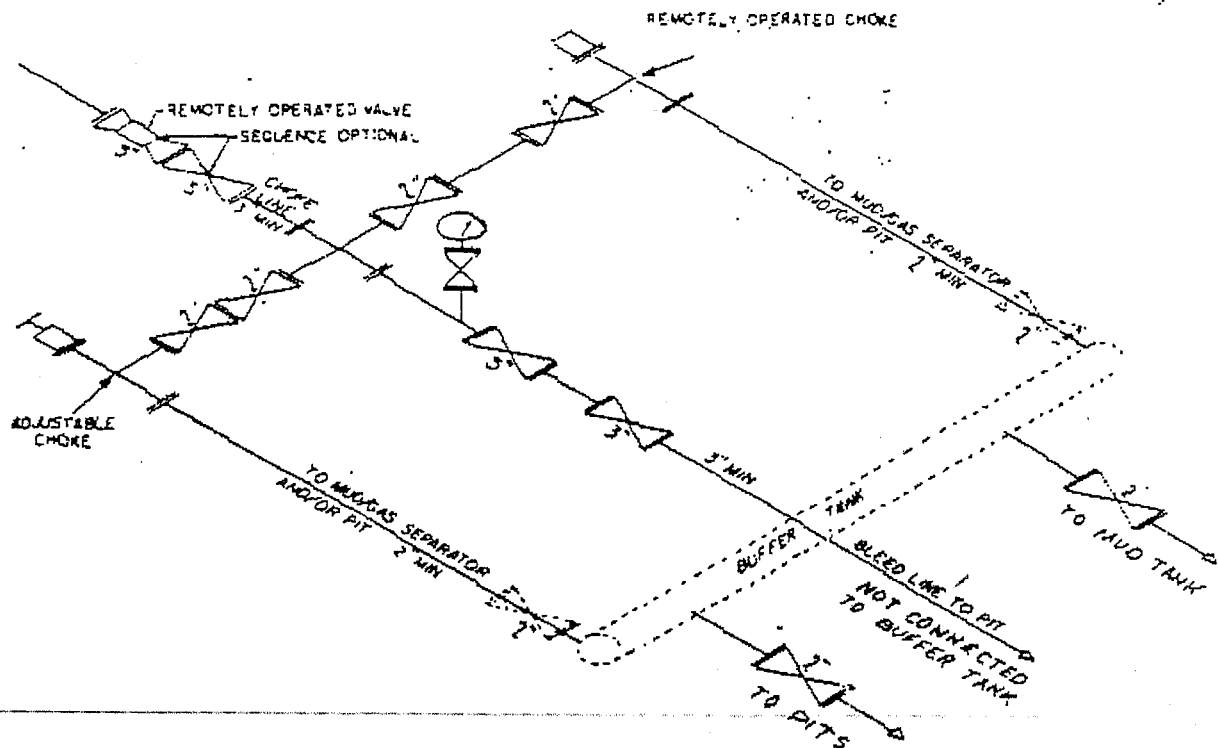


EXHIBIT B CONTINUED

Federal Register / Vol. 53, No. 221 / Friday, November 18, 1988 / Rules and Regulations

46813



② 5M CHOKES MANIFOLD EQUIPMENT — CONFIGURATION OF CHOKES MAY VARY

[FR Doc. 88-20738 Filed 11-17-88; 8:45 am]
BLLING CODE 4310-24-C

**QEP UINTA BASIN, INC.
GH 6MU-20-8-21
1956' FNL 1688' FWL
SENW, SECTION 20, T8S, R21E
UINTAH COUNTY, UTAH
LEASE # UTU-0140740**

ONSHORE ORDER NO. 1

MULTI – POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

The proposed well site is approximately 7 miles southeast of Ouray, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

There will be no improvements made to existing roads.

2. Planned Access Roads:

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

Refer to Topo Map B for the location of the proposed access road.

3. Location of Existing Wells Within a 1 – Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

Refer to Topo Map D for the location of the proposed pipeline.

5. Location and Type of Water Supply:

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

6. Source of Construction Materials:

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

7. Methods of Handling Waste Materials:

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

8. Ancillary Facilities:

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A pit liner is required. A felt pit liner will be required if bedrock is encountered.

10. Plans for Reclamation of the Surface:

Please see QEP Uinta Basin, Inc. Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

Interim Reclamation

Please see attached Interim Reclamation plan.

Once the well is put onto production, QEP will reclaim as much of the well pad as possible that will allow for operations to continue in a safe and reasonable manner. Reseeding will be done in the spring or fall of every year to allow winter precipitation to aid in the success of reclamation.

Seed Mix:

Interim Reclamation:

6 lbs Hycrest Crested Wheatgrass

6 lbs Needle & Threadgrass

Final Reclamation:

Seed Mix # 1 3 lbs. Fourwing Saltbush, 3 lbs. Indian Rice Grass, 4 lbs. Hycrest Crested Wheat Grass,
1 lb. Needle & Threadgrass

11. Surface Ownership:

The well pad and access road are located on lands owned by:

Ute Tribe

PO Box 70

FT. Duchesne, UT 84026

12. Other Information

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted directly to the appropriate agencies by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

Lessee's or Operator's Representative:

Jan Nelson
Red Wash Rep.
QEP Uinta Basin, Inc.
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4331

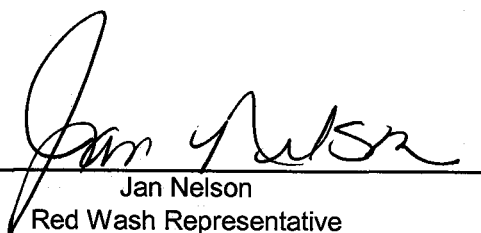
Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

QEP Uinta Basin Inc. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by QEP Uinta Basin, Inc. it's contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Jan Nelson
Red Wash Representative

18-Sep-06

Date

QUESTAR EXPLR. & PROD.

GH #6MU-20-8-21

LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T8S, R21E, S.L.B.&M.

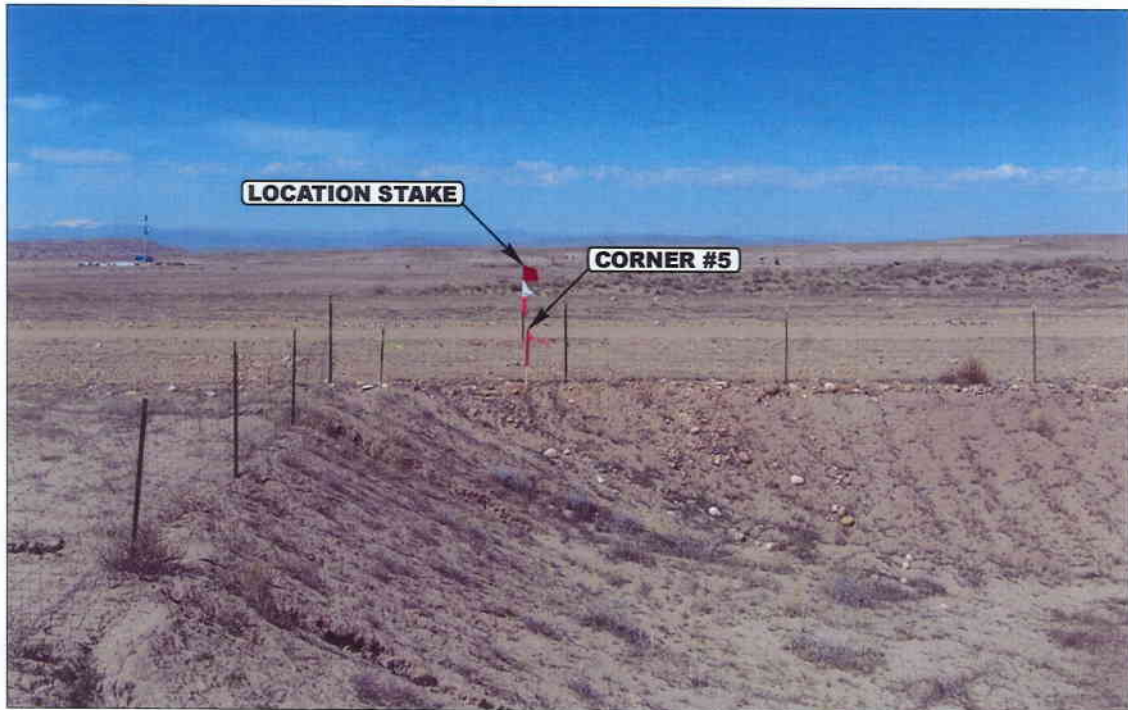


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: EASTERLY



UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

05 03 06
MONTH DAY YEAR

PHOTO

TAKEN BY: D.A.

DRAWN BY: B.C.

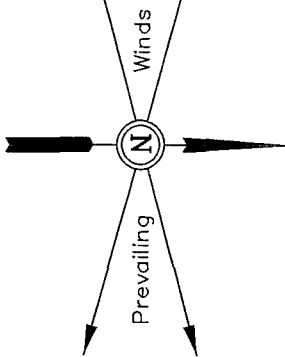
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QUESTAR EXPLR. & PROD.

FIGURE #1

LOCATION LAYOUT FOR

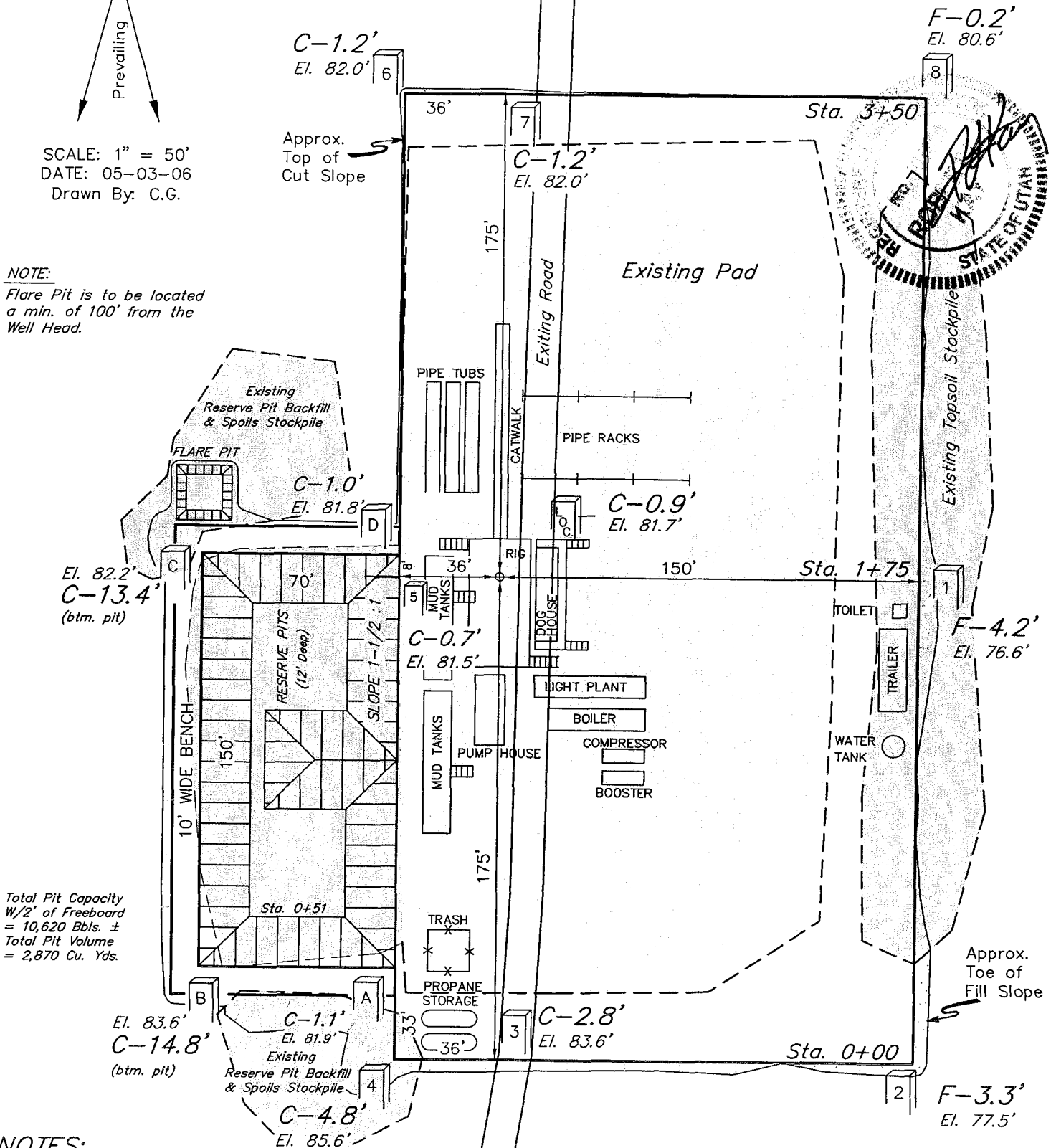
GH #6MU-20-8-21
SECTION 20, T8S, R21E, S.L.B.&M.
1956' FNL 1688' FWL



SCALE: 1" = 50'
DATE: 05-03-06
Drawn By: C.G.

NOTE:

Flare Pit is to be located
a min. of 100' from the
Well Head.



Total Pit Capacity
W/2' of Freeboard
= 10,620 Bbbls. ±
Total Pit Volume
= 2,870 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4681.7'
FINISHED GRADE ELEV. AT LOC. STAKE = 4680.8'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

QUESTAR EXPLR. & PROD.

FIGURE #2

TYPICAL CROSS SECTIONS FOR

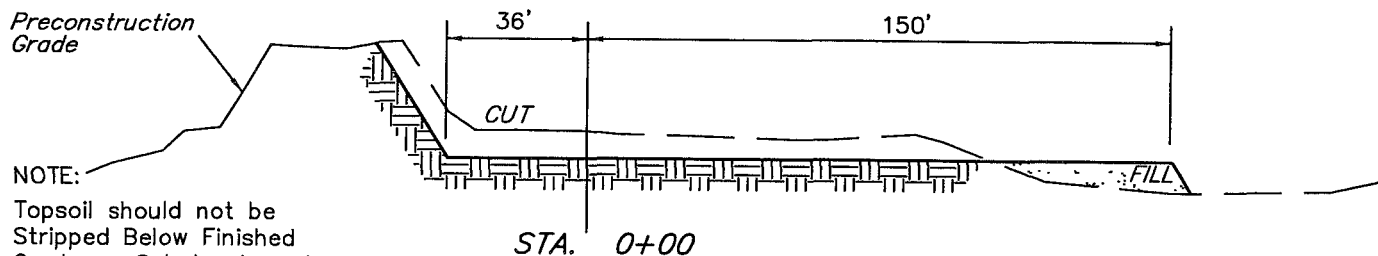
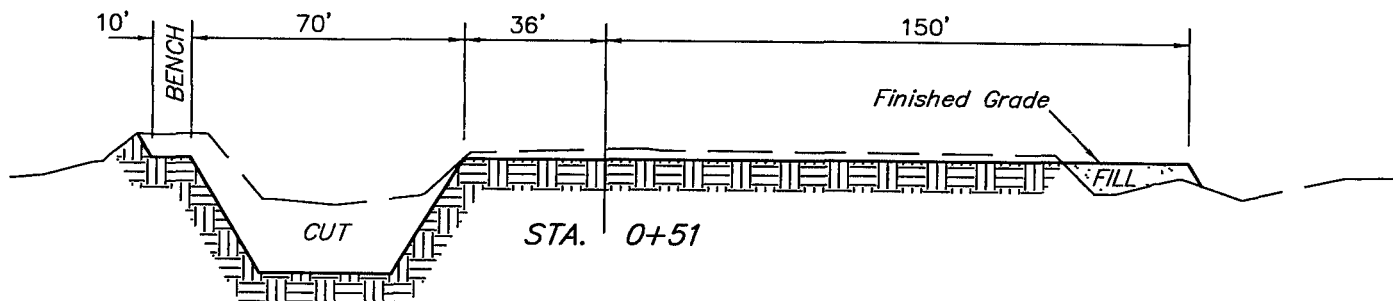
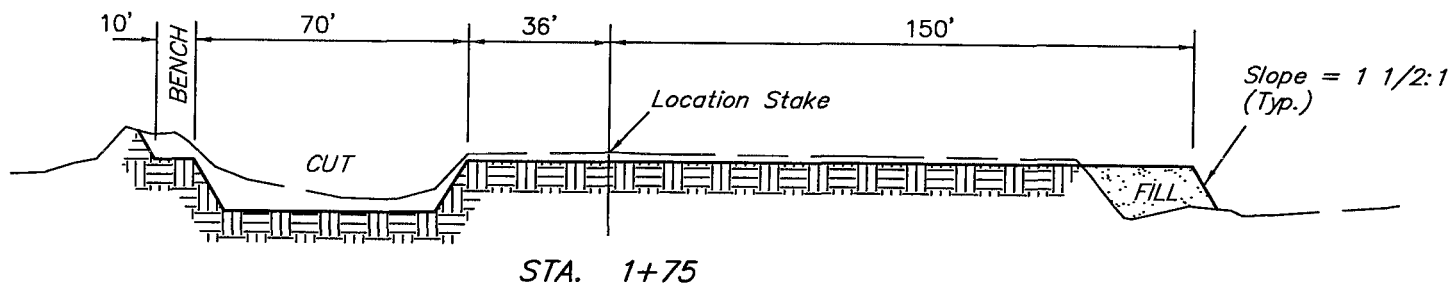
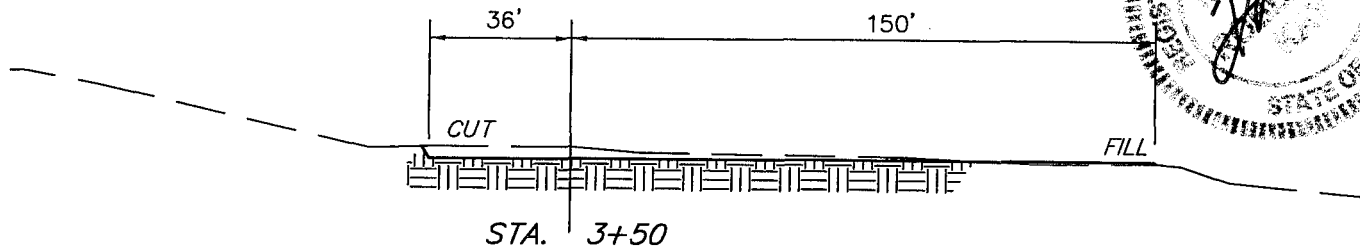
GH #6MU-20-8-21

SECTION 20, T8S, R21E, S.L.B.&M.

1956' FNL 1688' FWL

1" = 20'
X-Section
Scale
1" = 50'

DATE: 05-03-06
Drawn By: C.G.



NOTE:
Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

APPROXIMATE YARDAGES

| | |
|-------------------------|------------------------|
| CUT | |
| (6") Topsoil Stripping | = 340 Cu. Yds. |
| (New Construction Only) | |
| Remaining Location | = 2,750 Cu. Yds. |
| TOTAL CUT | = 3,090 CU.YDS. |
| FILL | = 1,310 CU.YDS. |

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION
Excess Material = 1,780 Cu. Yds.
Topsoil & Pit Backfill = 1,780 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

QUESTAR EXPLR. & PROD.

FIGURE #3

INTERIM RECLAMATION PLAN FOR

GH #6MU-20-8-21

SECTION 20, T8S, R21E, S.L.B.&M.

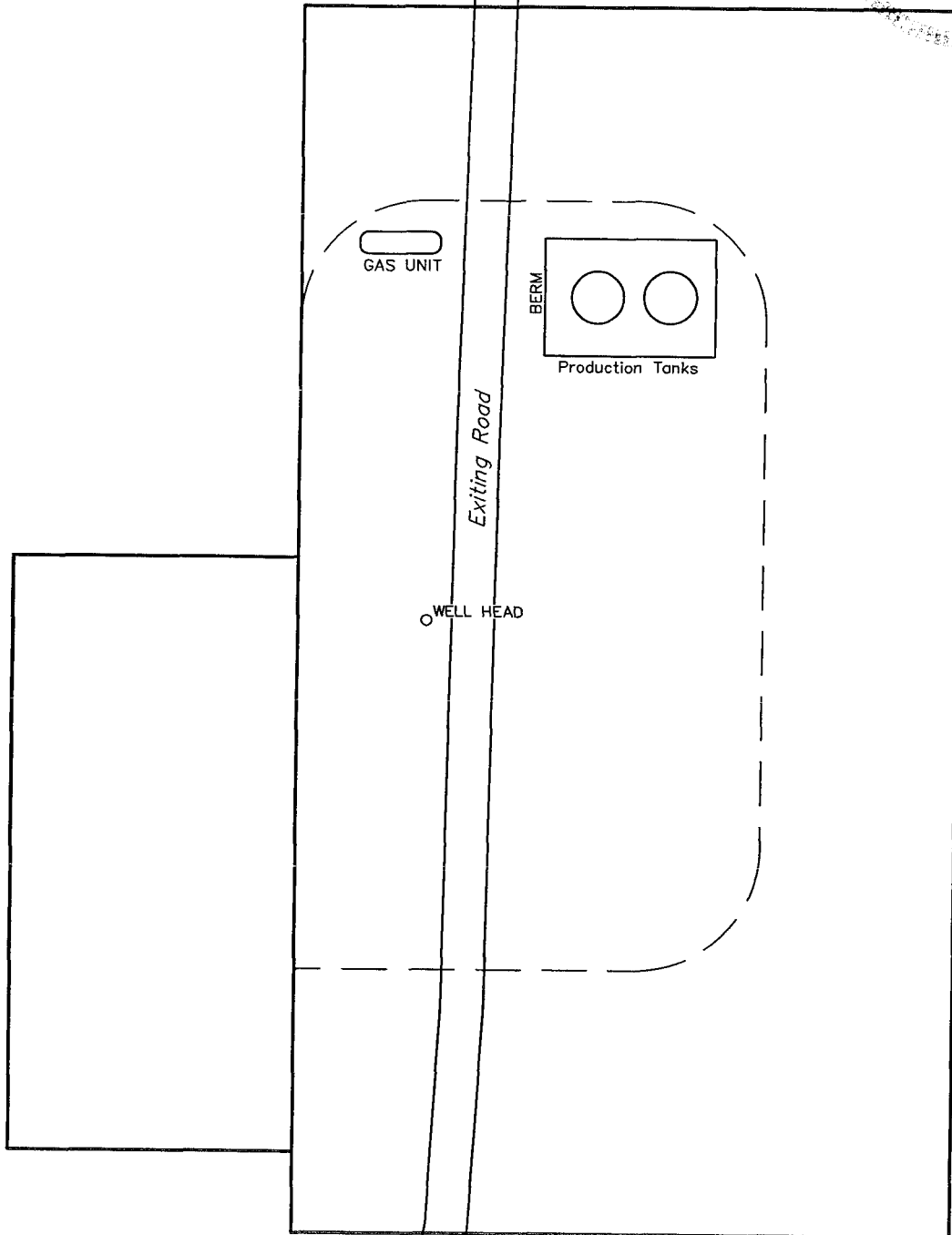
1956' FNL 1688' FWL



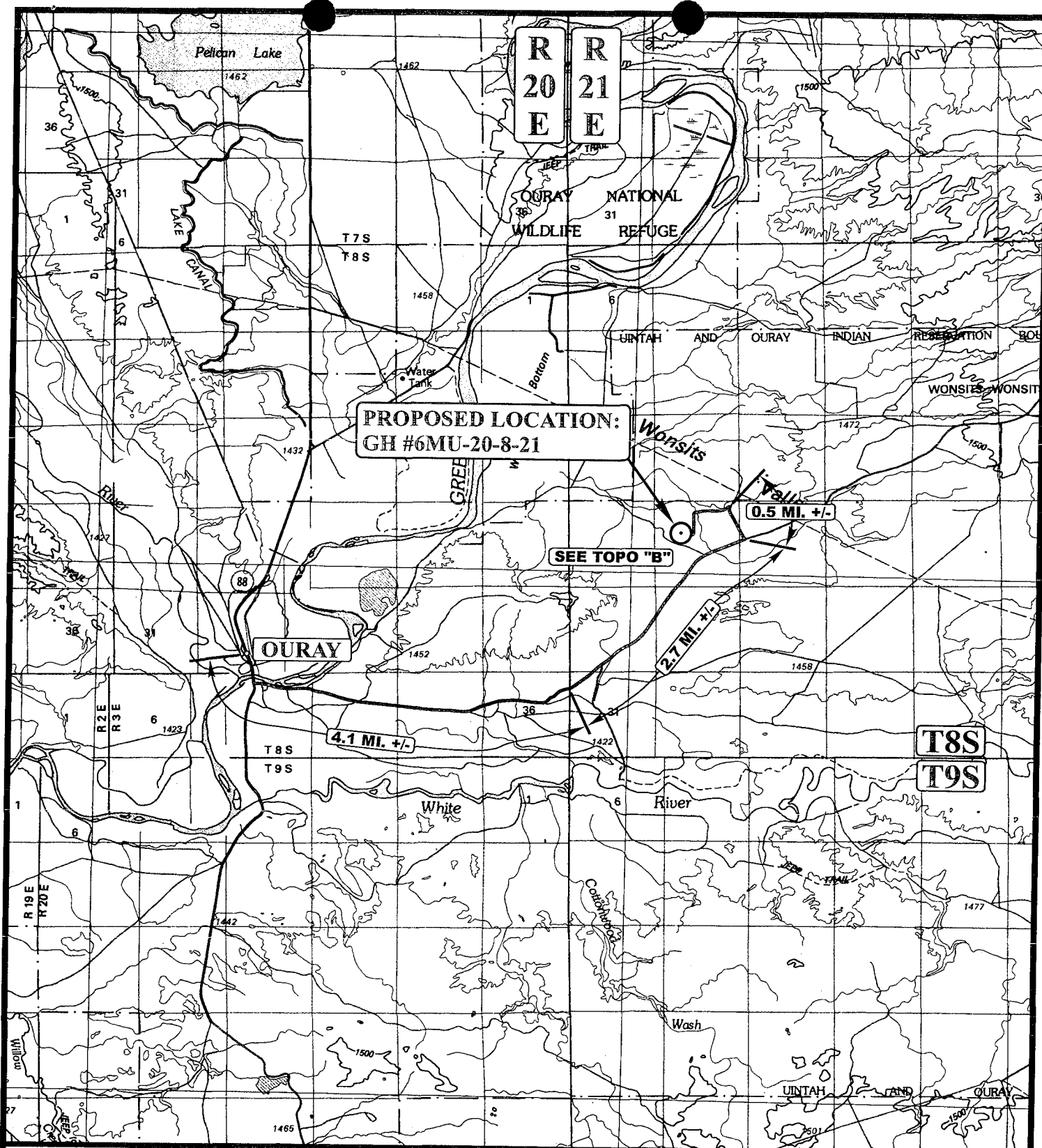
SCALE: 1" = 50'

DATE: 05-03-06

Drawn By: C.G.



INTERIM RECLAMATION



LEGEND:

PROPOSED LOCATION

QUESTAR EXPLR. & PROD.

GH #6MU-20-8-21

SECTION 20, T8S, R21E, S.L.B.&M.

1956' FNL 1688' FWL

Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

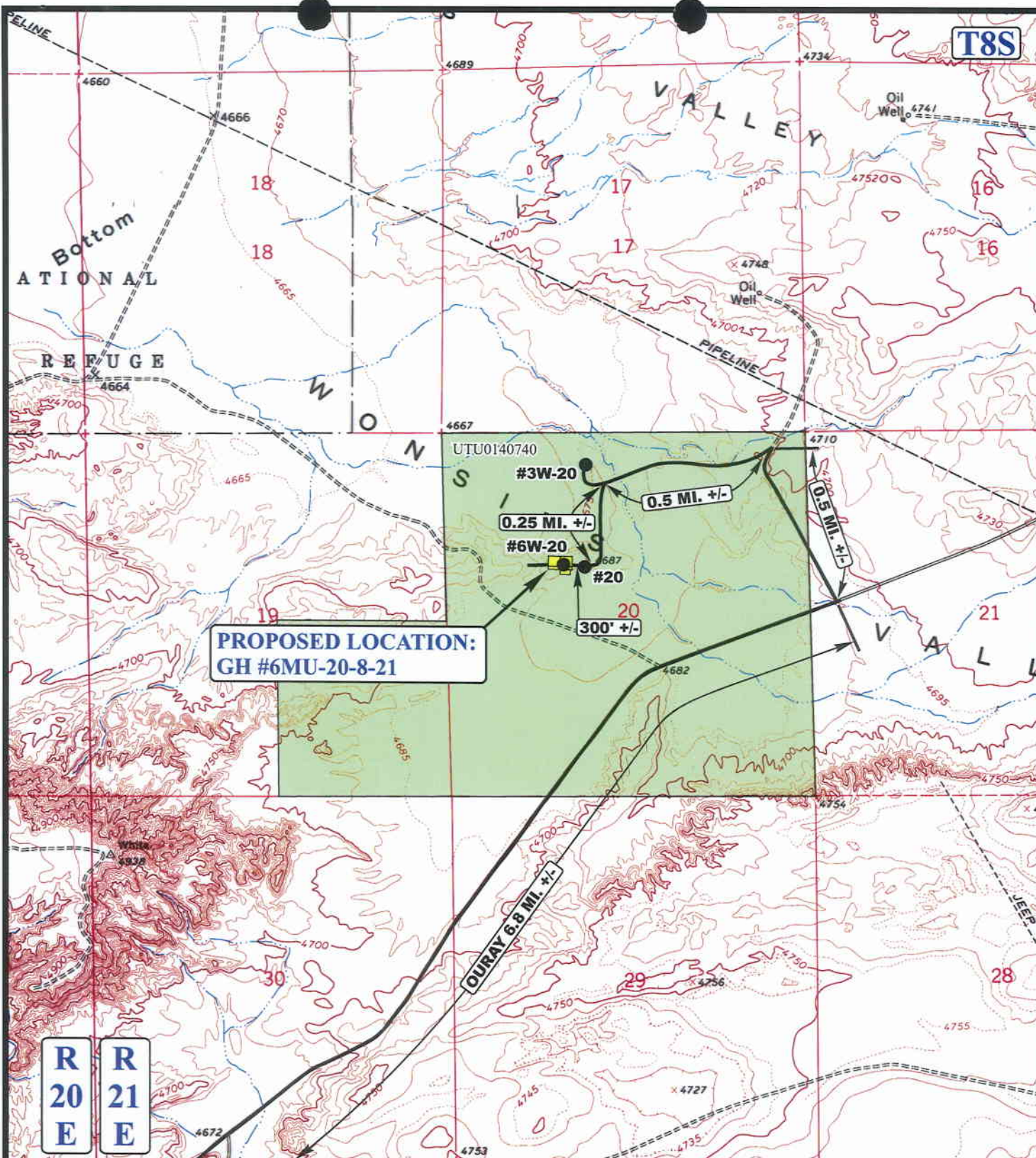
TOPOGRAPHIC
MAP

05 03 06
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: B.C. REVISED: 00-00-00

A
TOPO





D
TOPO

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/26/2006

API NO. ASSIGNED: 43-047-38662

WELL NAME: GH 6MU-20-8-21

OPERATOR: QEP UINTA BASIN, INC. (N2460)

PHONE NUMBER: 435-781-4331

CONTACT: JAN NELSON

PROPOSED LOCATION:

SENW 20 080S 210E

SURFACE: 1956 FNL 1688 FWL

BOTTOM: 1956 FNL 1688 FWL

COUNTY: UINTAH

LATITUDE: 40.11049 LONGITUDE: -109.5812

UTM SURF EASTINGS: 620917 NORTHINGS: 4440775

FIELD NAME: GYPSUM HILLS (610)

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|-------------|----------|------|
| Engineering | | |
| Geology | | |
| Surface | | |

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0140740

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: MVRD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- ☒ Plat
- ☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. ESB000024)
- ☒ Potash (Y/N)
- ☒ Oil Shale 190-5 (B) or 190-3 or 190-13
- ☒ Water Permit
(No. 49-2153)
- ☒ RDCC Review (Y/N)
(Date:)
- ☒ Fee Surf Agreement (Y/N)
- ☒ Intent to Commingle (Y/N)

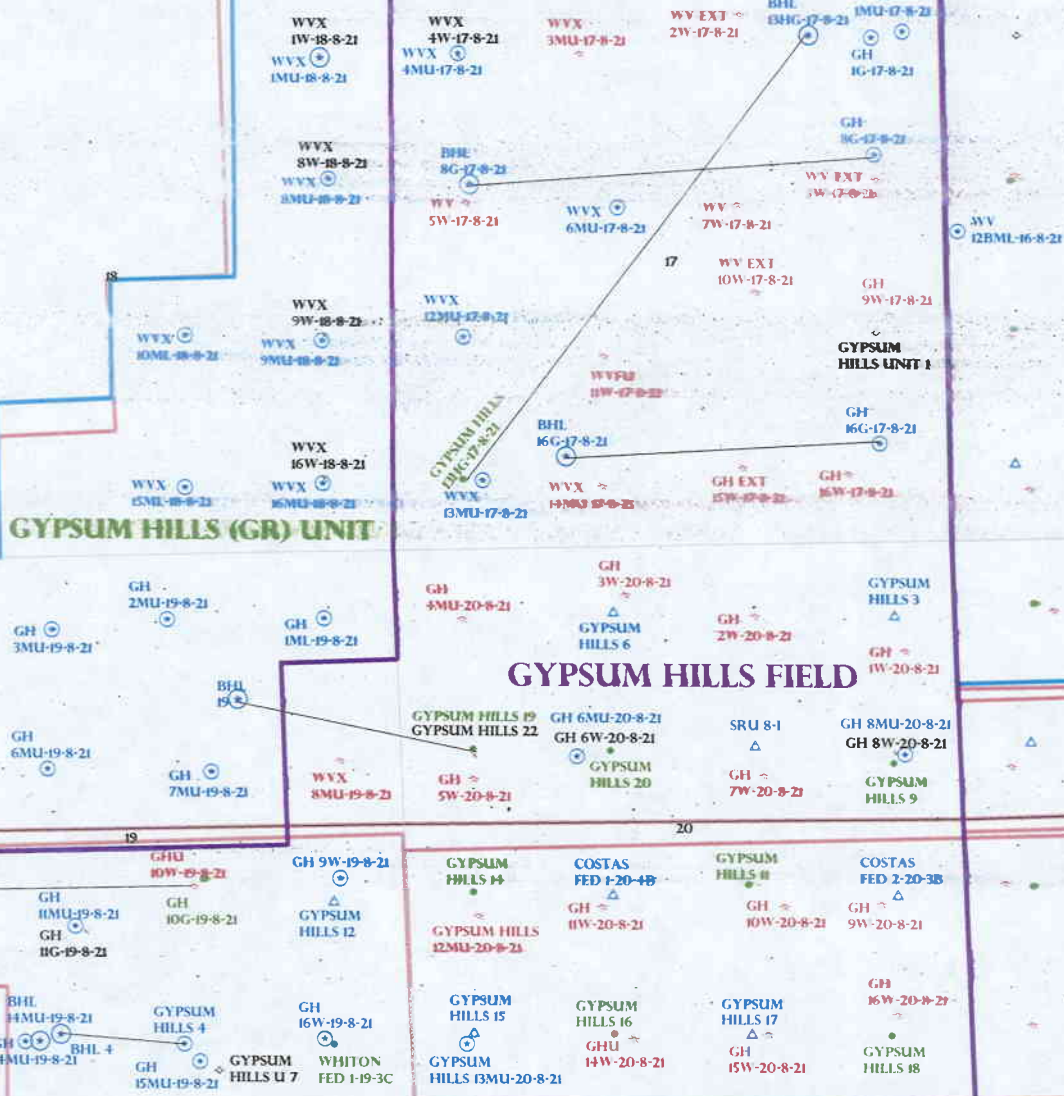
LOCATION AND SITING:

- ☐ R649-2-3.
- Unit: GYPSUM HILLS (GREEN RIVER) *Non PM*
- ☐ R649-3-2. General
- Siting: 460 From Qtr/Qtr & 920' Between Wells
- ☒ R649-3-3. Exception
- ☐ Drilling Unit
- Board Cause No: _____
- Eff Date: _____
- Siting: _____
- ☐ R649-3-11. Directional Drill

COMMENTS: *Sop, Separate file*

STIPULATIONS: *1- Federal Approval*
2- Spacing Strip

T8S R20E T8S R21E



OPERATOR: QEP UINTEA BASIN INC (N2460)

SEC: 20 T.8S R. 21E

FIELD: GYPSUM HILLS (610)

COUNTY: UINTEA

SPACING: R649-3-3 / EXCEPTION LOCATION

Field Status

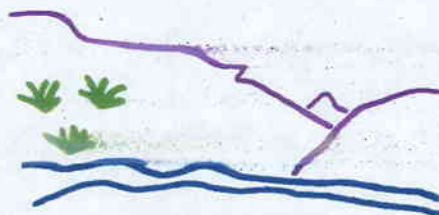
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY
DATE: 27-SEPTEMBER-2006

QUESTAR**Questar Exploration and Production Company**

11002 East 17500 South

Vernal, UT 84078

Tel 435 781 4300 • Fax 435 781 4329

September 18, 2006

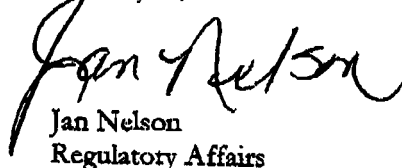
Division of Oil, Gas & Mining
1594 W. N. Temple STE 1210
Salt Lake City, UT 84114-5801

To Whom It May Concern:

QEP Uinta Basin, Inc. Gypsum Hills 6MU-20-8-21 Lease # UTU-0140740, is an exception location due to the General State Citing Rule of it being closer than 920' to the Gypsum Hills #20. QEP is considered to be the operator of the GH #20. The GH 6MU-20-8-21 was moved because of the location of the GH #20.

There are no additional lease owners within 460' of this proposed well. If you have any question please contact Jan Nelson @ (435) 781-4331.

Thank you,



Jan Nelson
Regulatory Affairs

RECEIVED**SEP 27 2006****DIV. OF OIL, GAS & MINING**



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

September 27, 2006

QEP Uinta Basin, Inc.
11002 E 17500 S
Vernal, UT 84078

Re: Gypsum Hills 6MU-20-8-21 Well, 1956' FNL, 1688' FWL, SE NW, Sec. 20,
T. 8 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38662.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

Operator: QEP Uinta Basin, Inc.
Well Name & Number Gypsum Hills 6MU-20-8-21
API Number: 43-047-38662
Lease: UTU-0140740

Location: SE NW Sec. 20 T. 8 South R. 21 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

Change of Operator (Well Sold)

X - Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

1/1/2007

FROM: (Old Operator):

N2460-QEP Uinta Basin, Inc.
 1050 17th St, Suite 500
 Denver, CO 80265

Phone: 1 (303) 672-6900

TO: (New Operator):

N5085-Questar E&P Company
 1050 17th St, Suite 500
 Denver, CO 80265

Phone: 1 (303) 672-6900

CA No.

Unit:

GYPSUM HILLS UNIT

| WELL NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|--------------------|-----|-----|-----|--------|-----------|------------|-----------|-------------|
| SEE ATTACHED LISTS | | | | * | | | | |

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- Is the new operator registered in the State of Utah: _____ Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: _____
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: _____

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 4/30/2007 and 5/15/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/30/2007 and 5/15/2007
- Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
- Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
- Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 799446
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033
- The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS: THIS IS A COMPANY NAME CHANGE.

SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|---------------------------|------------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| GYPSUM HILLS 3 | GH 3 | NENE | 20 | 080S | 210E | 4304720002 | 5355 | Federal | WI | A |
| GYPSUM HILLS 4 | GH 4 | SWSE | 19 | 080S | 210E | 4304730028 | 5355 | Federal | OW | P |
| GYPSUM HILLS 6 | GH 6 | NENW | 20 | 080S | 210E | 4304730099 | 5251 | Federal | WI | A |
| COSTAS FED 1-20-4B | GH 1-20 | NESW | 20 | 080S | 210E | 4304731006 | 5355 | Federal | WI | A |
| WHITON FED 1-19-3C | GH 1-19 | SESE | 19 | 080S | 210E | 4304731065 | 5355 | Federal | OW | P |
| COSTAS FED 2-20-3B | GH 2-20 | NESE | 20 | 080S | 210E | 4304731066 | 5355 | Federal | WI | A |
| STAGECOACH FED 23-21 | GH 23-21 | NWSW | 21 | 080S | 210E | 4304731541 | 5355 | Federal | OW | P |
| COSTAS FED 3-21-1D | GH 3-21 | SWNW | 21 | 080S | 210E | 4304731604 | 5355 | Federal | WI | A |
| COSTAS FED 4-21-1C | GH 4-21 | SENE | 21 | 080S | 210E | 4304731826 | 5355 | Federal | OW | P |
| COSTAS FED 5-21-2C | GH 5-21 | SENE | 21 | 080S | 210E | 4304731827 | 5355 | Federal | OW | P |
| SRU 8-I | GH 8-I | SWNE | 20 | 080S | 210E | 4304731932 | 5355 | Federal | WI | A |
| GYPSUM HILLS 9 | GH 9 | SENE | 20 | 080S | 210E | 4304732304 | 5355 | Federal | OW | P |
| GYPSUM HILLS 10 | GH 10 | NWSE | 21 | 080S | 210E | 4304732306 | 5355 | Federal | WI | A |
| GYPSUM HILLS 12 | GH 12 | NESE | 19 | 080S | 210E | 4304732458 | 5355 | Federal | WI | A |
| GYPSUM HILLS 11 | GH 11 | NWSE | 20 | 080S | 210E | 4304732459 | 5355 | Federal | OW | P |
| GYPSUM HILLS 13 | GH 13 | NESW | 21 | 080S | 210E | 4304732460 | 5355 | Federal | OW | P |
| GYPSUM HILLS 14 | GH 13 | NWSW | 20 | 080S | 210E | 4304732647 | 5355 | Federal | OW | P |
| GYPSUM HILLS 15 | GH 15 | SWSW | 20 | 080S | 210E | 4304732648 | 5355 | Federal | WI | A |
| GYPSUM HILLS 17 | GH 17 | SWSE | 20 | 080S | 210E | 4304732649 | 5355 | Federal | WI | A |
| GYPSUM HILLS 18 | GH 18 | SESE | 20 | 080S | 210E | 4304732650 | 5355 | Federal | OW | P |
| GYPSUM HILLS 19 | GH 19 | SWNW | 20 | 080S | 210E | 4304732651 | 5355 | Federal | OW | P |
| GYPSUM HILLS 20 | GH 20 | SENE | 20 | 080S | 210E | 4304732652 | 5355 | Federal | OW | P |
| GYPSUM HILLS 16 | GH 16 | SESW | 20 | 080S | 210E | 4304732675 | 5355 | Federal | OW | P |
| GHU 10W-19-8-21 | GH 10W-19-8-21 | NWSE | 19 | 080S | 210E | 4304733528 | 12736 | Federal | GW | P |
| GH 10G-19-8-21 | GH 10G-19-8-21 | NWSE | 19 | 080S | 210E | 4304733566 | 5355 | Federal | OW | P |
| WV 11W-17-8-21 | WV 11W-17-8-21 | NESW | 17 | 080S | 210E | 4304733912 | 13228 | Federal | GW | P |
| WV 5W-17-8-21 | WV 5W-17-8-21 | SWNW | 17 | 080S | 210E | 4304733954 | 13332 | Federal | GW | P |
| WV 7W-17-8-21 | WV 7W-17-8-21 | SWNE | 17 | 080S | 210E | 4304733956 | 13330 | Federal | GW | P |
| GH 9W-17-8-21 | GH 9W-17-8-21 | NESE | 17 | 080S | 210E | 4304734150 | 13392 | Federal | GW | P |
| GH 16W-17-8-21 | GH 16W-17-8-21 | SESE | 17 | 080S | 210E | 4304734156 | 13354 | Federal | GW | P |
| WV EXT 10W-17-8-21 | WVX 10W-17-8-20 | NWSE | 17 | 080S | 210E | 4304734561 | 13744 | Federal | GW | P |
| GH EXT 15W-17-8-21 | GHX 15W-17-8-20 | SWSE | 17 | 080S | 210E | 4304734562 | 13674 | Federal | GW | P |
| GYPSUM HILLS 13HG-17-8-21 | GHX 13HG-17-8-21 | SWSW | 17 | 080S | 210E | 4304734723 | 5355 | Federal | OW | S |
| GH 1G-17-8-21 | GH 1G-17-8-21 | NENE | 17 | 080S | 210E | 4304734927 | 5355 | Federal | OW | P |
| WV EXT 2W-17-8-21 | WVX 2W-17-8-20 | NWNE | 17 | 080S | 210E | 4304734928 | 14253 | Federal | GW | P |
| WV EXT 8W-17-8-21 | WVX 8W-17-8-20 | SENE | 17 | 080S | 210E | 4304734929 | 13792 | Federal | GW | P |
| GH 4MU-20-8-21 | GH 4MU-20-8-21 | NWNW | 20 | 080S | 210E | 4304735068 | 14213 | Federal | GW | P |
| GYPSUM HILLS 13MU-20-8-21 | GH 13MU-20-8-20 | SWSW | 20 | 080S | 210E | 4304735070 | 14817 | Federal | GW | P |
| GH 5W-20-8-21 | GH 5W-20-8-21 | SWNW | 20 | 080S | 210E | 4304735097 | 14557 | Federal | GW | P |
| WVX 3MU-17-8-21 | WVX 3MU-17-8-21 | NENW | 17 | 080S | 210E | 4304735318 | 14113 | Federal | GW | P |
| GH 15ML-18-8-21 | GH 15ML-18-8-21 | SWSE | 18 | 080S | 210E | 4304735323 | 15483 | Federal | GW | DRL |

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
GYPSUM HILLS UNIT

4/30/2007 and 5/15/2007

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|--------------------|------------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| GH 1ML-19-8-21 | GH 1ML-19-8-21 | NENE | 19 | 080S | 210E | 4304735324 | 14824 | Federal | GW | P |
| GH 16W-19-8-21 | GH 16W-19-8-21 | SESE | 19 | 080S | 210E | 4304735325 | 14823 | Federal | GW | DRL |
| WVX 14MU-17-8-21 | WVX 14MU-17-8-21 | SESW | 17 | 080S | 210E | 4304735369 | 14098 | Federal | GW | P |
| WVX 12MU-17-8-21 | WVX 12MU-17-8-21 | NWSW | 17 | 080S | 210E | 4304735370 | 15108 | Federal | GW | P |
| WVX 8MU-19-8-21 | WVX 8MU-19-8-21 | SENE | 19 | 080S | 210E | 4304735372 | 14241 | Federal | GW | P |
| GH 10ML-18-8-21 | GH 10ML-18-8-21 | NWSE | 18 | 080S | 210E | 4304735391 | 15482 | Federal | GW | P |
| GH 8G-17-8-21 | GH 8G-17-8-21 | SENE | 17 | 080S | 210E | 4304737992 | 5355 | Federal | OW | DRL |
| GH 16G-17-8-21 | GH 16G-17-8-21 | SESE | 17 | 080S | 210E | 4304737993 | 5355 | Federal | OW | DRL |
| WVX 1MU-17-8-21 | WVX 1MU-17-8-21 | NENE | 17 | 080S | 210E | 4304738156 | | Federal | GW | APD |
| GH 8MU-20-8-21 | GH 8-20-8-21 | SENE | 20 | 080S | 210E | 4304738157 | | Federal | GW | APD |
| WVX 13MU-17-8-21 | WVX 13MU-17-8-21 | SWSW | 17 | 080S | 210E | 4304738188 | | Federal | GW | APD |
| WVX 6MU-17-8-21 | WVX 6MU-17-8-21 | SENE | 17 | 080S | 210E | 4304738189 | | Federal | GW | APD |
| WVX 4MU-17-8-21 | WVX 4MU-17-8-21 | NWNW | 17 | 080S | 210E | 4304738190 | | Federal | GW | APD |
| WVX 16MU-18-8-21 | WVX 16MU-18-8-21 | SESE | 18 | 080S | 210E | 4304738191 | | Federal | GW | APD |
| GH 2MU-19-8-21 | GH 2MU-19-8-21 | NWNE | 19 | 080S | 210E | 4304738192 | | Federal | GW | APD |
| GH 3MU-19-8-21 | GH 3MU-19-8-21 | NENW | 19 | 080S | 210E | 4304738250 | | Federal | GW | APD |
| GH 4MU-19-8-21 | GH 4MU-19-8-21 | NWNW | 19 | 080S | 210E | 4304738264 | | Federal | GW | APD |
| GH 5MU-19-8-21 | GH 5MU-19-8-21 | SWNW | 19 | 080S | 210E | 4304738265 | | Federal | GW | APD |
| GH 6MU-19-8-21 | GH 6MU-19-8-21 | SENE | 19 | 080S | 210E | 4304738266 | | Federal | GW | APD |
| GH 7MU-19-8-21 | GH 7D-19-8-21 | SWNE | 19 | 080S | 210E | 4304738267 | | Federal | GW | APD |
| GH 11MU-19-8-21 | GH 11MU-19-8-21 | NESW | 19 | 080S | 210E | 4304738268 | | Federal | GW | APD |
| GH 12MU-19-8-21 | GH 12MU-19-8-21 | NWSW | 19 | 080S | 210E | 4304738269 | | Federal | GW | APD |
| GH 15MU-19-8-21 | GH 15MU-19-8-21 | SWSE | 19 | 080S | 210E | 4304738270 | | Federal | GW | APD |
| GH 14MU-19-8-21 | GH 14MU-19-8-21 | SESW | 19 | 080S | 210E | 4304738472 | | Federal | GW | APD |
| WVX 1MU-18-8-21 | WVX 1MU-18-8-21 | NENE | 18 | 080S | 210E | 4304738659 | | Federal | GW | APD |
| WVX 9MU-18-8-21 | WVX 9MU-18-8-21 | NESE | 18 | 080S | 210E | 4304738660 | | Federal | GW | APD |
| WVX 8MU-18-8-21 | GH 8G-18-8-21 | SENE | 18 | 080S | 210E | 4304738661 | | Federal | GW | APD |
| GH 6MU-20-8-21 | GH 6-20-8-21 | SENE | 20 | 080S | 210E | 4304738662 | | Federal | GW | APD |

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

| | | |
|--|--|---|
| 1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | | 5. LEASE DESIGNATION AND SERIAL NUMBER: see attached |
| 2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached |
| 3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265 | | 7. UNIT or CA AGREEMENT NAME: see attached |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: attached | | 8. WELL NAME and NUMBER: see attached |
| PHONE NUMBER: (303) 308-3068 | | 9. API NUMBER: attached |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: | | 10. FIELD AND POOL, OR WILDCAT: |
| COUNTY: Uintah | | STATE: UTAH |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|---|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 1/1/2007 | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: Operator Name Change |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: 965003033

Fee Land Bond Number: 965003033

Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Jay B. Neese, Executive Vice President
Questar Exploration and Production Company

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs
SIGNATURE DATE 3/16/2007

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APR 19 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

| | | |
|--|--|---|
| 1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | | 5. LEASE DESIGNATION AND SERIAL NUMBER: see attached |
| 2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached |
| 3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 City: Denver STATE: CO ZIP: 80265 | | 7. UNIT or CA AGREEMENT NAME: see attached |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: attached | | 8. WELL NAME and NUMBER: see attached |
| PHONE NUMBER: (303) 308-3068 | | 9. API NUMBER: attached |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: | | 10. FIELD AND POOL, OR WILDCAT: |
| COUNTY: Uintah | | STATE: UTAH |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u> | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: <u>Well Name Changes</u> |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs
SIGNATURE [Signature] DATE 4/17/2007

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DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3180
UT-922

April 23, 2007

Questar Exploration and Production Company
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Gypsum Hills (GR) Unit
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Gypsum Hills (GR) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Gypsum Hills (GR) Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Gypsum Hills (GR) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Greg J. Noble

Greg J. Noble
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
File - Gypsum Hills (GR) Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files

UT922:TAThompson:tt:4/23/07

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APR 30 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

| | | |
|---|--|---|
| 1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____ | | 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0140740 |
| 2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO. | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TRIBE |
| 3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078 | | 7. UNIT or CA AGREEMENT NAME: GYPSUM HILLS |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1956' FNL 1688' FWL | | 8. WELL NAME and NUMBER: GH 6MU-20-8-21 |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SE NW 20 8S 21E | | 9. API NUMBER: 4304738662 |
| COUNTY: UINTAH | | 10. FIELD AND POOL, OR WILDCAT: GYPSUM HILLS |
| STATE: UTAH | | |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____ | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: APD EXTENSION |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Questar Exploration & Production Co. hereby requests a 1 year extension on the GH 6MU-20-8-21.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 10-02-07
By: [Signature]

10-3-07
Rm

| | |
|--|---------------------------------|
| NAME (PLEASE PRINT) <u>Laura Bills</u> | TITLE <u>Regulatory Affairs</u> |
| SIGNATURE <u>[Signature]</u> | DATE <u>9/24/2007</u> |

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OCT 01 2007

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-38662
Well Name: GH 6MU-20-8-21
Location: 1956' FNL 1688' FWL, SENW, SEC.20, T8S, R24E
Company Permit Issued to: Questar Exploration & Production Co.
Date Original Permit Issued: 9/27/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

9/24/2007

Date

Title: REGULATORY AFFAIRS

Representing: Questar Exploration & Production Co.

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OCT 01 2007

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 21 2008

FORM APPROVED
OMB NO. 1040-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK

DRILL ☒

DEEPEN ☐

TYPE OF WELL

☐

☒

☐

☒

☐

OIL WELL

GAS WELL

OTHER

SINGLE
ZONE

MULTIPLE
ZONE

2. NAME OF OPERATOR

QEP UINTA BASIN, INC.

Contact: Jan Nelson

E-Mail: jan.nelson@questar.com

3. ADDRESS

11002 E. 17500 S. Vernal, Ut 84078

Telephone number

Phone 435-781-4331 Fax 435-781-4323

4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*)

At Surface

1956' FNL 1688' FWL SENW SECTION 20 T8S R21E

At proposed production zone

14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*

7 +/- - SOUTHEAST OF OURAY, UTAH

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

(also to nearest drig,unit line if any)

1688' +/-

16.NO.OF ACRES IN LEASE

800.00

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18.DISTANCE FROM PROPOSED location to nearest well, drilling,
completed, applied for, on this lease, ft

19. PROPOSED DEPTH

11,725'

20. BLM/BIA Bond No. on file
ESB000024

21. ELEVATIONS (Show whether DF, RT, GR, ect.)

4680.8' GR

22. DATE WORK WILL START

ASAP

23. Estimated duration

10 days

24. Attachments

The following,completed in accordance with the requirments of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan

3. A surface Use Plan (if location is on National Forest System Lands,
the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an exisiting bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized officer.

SIGNED

Name (printed/typed) Jan Nelson

DATE 9-18-06

TITLE

Regulatory Affairs

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

*See Instructions On Reverse Side

RECEIVED

MAY 23 2008

DATE

5/20/08

DIV. OF OIL, GAS & MINING

Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

United States any false, fictitious or fraudulent statements or representations as to any mater within its jurisdiction

NOTICE OF APPROVAL

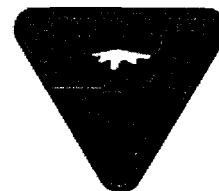
UDOGM

CONDITIONS OF APPROVAL ATTACHED



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Questar Exp. & Prod., Inc.
Well No: GH 6MU-20-8-21
API No: 43-047-38662

Location: SENW, Sec 20, T8S, R21E
Lease No: UTU-0140740
Agreement Gypsum Hills Unit

| Title | Name | Office Phone Number | Cell Phone Number |
|-----------------------------------|-----------------|---------------------|-------------------|
| Petroleum Engineer: | Matt Baker | (435) 781-4490 | (435) 828-4470 |
| Petroleum Engineer: | Michael Lee | (435) 781-4432 | (435) 828-7875 |
| Petroleum Engineer: | James Ashley | (435) 781-4470 | (435) 828-7874 |
| Petroleum Engineer: | Ryan Angus | (435) 781-4430 | (435) 828-7368 |
| Supervisory Petroleum Technician: | Jamie Sparger | (435) 781-4502 | (435) 828-3913 |
| Supervisory NRS: | Karl Wright | (435) 781-4484 | (435) 828-7381 |
| NRS/Enviro Scientist: | Holly Villa | (435) 781-4404 | |
| NRS/Enviro Scientist: | Chuck MacDonald | (435) 781-4441 | (435) 828-7481 |
| NRS/Enviro Scientist: | Michael Cutler | (435) 781-3401 | (435) 828-3546 |
| NRS/Enviro Scientist: | Anna Figueroa | (435) 781-3407 | (435) 828-3548 |
| NRS/Enviro Scientist: | Verlyn Pindell | (435) 781-3402 | (435) 828-3547 |
| NRS/Enviro Scientist: | Darren Williams | (435) 781-4447 | |
| NRS/Enviro Scientist: | Nathan Packer | (435) 781-3405 | (435) 828-3545 |

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

| | | |
|---|---|---|
| Construction Activity | - | The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday. |
| Construction Completion | - | Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. |
| Spud Notice (Notify Petroleum Engineer) | - | Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing (Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings. |
| BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice (Notify Petroleum Engineer) | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

Surface COAs:

General Conditions of Approval

- A 250' by 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

ADDITIONAL Conditions of Approval

- Paint equipment DESERT TAN
- Culverts as needed. A 24" culvert is required for the access road.
- Rock and gravel roads and well pads

DOWNHOLE CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Oil shall not be used in the water based mud system without prior approval. Written request for approval shall be required.
- Intermediate casing cement shall be brought up and into the surface.
- Production casing cement shall be brought up and into the intermediate casing. The minimum cement top is 200 ft above the intermediate casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS
DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

UTU-0140740

6. If Indian, Allottee or Tribe Name

UTE INDIAN TRIBE

7. If Unit or CA/Agreement, Name and/or No.

GYPSUM HILLS

8. Well Name and No.

GH 6MU-20-8-21

9. API Well No.

43-047-38662

10. Field and Pool, or Exploratory Area

WONSITS VALLEY

11. County or Parish, State

UINTAH

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

QUESTAR EXPLORATION & PRODUCTION, CO.

Contact: Jan Nelson

3a. Address

11002 E. 17500 S. VERNAL, UT 84078

3b. Phone No. (include area code)

435-781-4331

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1956' FNL 1688' FWL, SENW, SECTION 20, T8S, R21E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION |
|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other NAME CHANGE |
| | <input checked="" type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon |
| | <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal |

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

QUESTAR EXPLORATION AND PRODUCTION COMPANY (QEP) REQUEST PERMISSION TO CHANGE THE DRILLING PLANS, INCREASE TOTAL DEPTH FROM 11,725' TO 17,183' FOR THIS WELL AND TO USE OIL BASE MUD FOR THE DRILLING OF THE FINAL SECTION OF THIS WELL TO IMPROVE DRILLING EFFICIENCY, WELLBORE STABILITY AND TO PROMOTE A GOOD CEMENT JOB OF THE PRODUCTION CASING. ATTACHED IS A DRILLING PLAN, WELLBORE DIAGRAM, DRILLING FLUID PROPOSAL AND A PROPOSAL FOR PROCESSING AND DISPOSAL OF THE OIL BASE MUD.

QEP IS REQUESTING TO CHANGE THE WELL NAME FROM GH 6MU-20-8-21 TO GH 6-20-8-21.

QUESTAR EXPLORATION & PRODUCTION COMPANY (QEP) WILL PROVIDE THE PROPER PAPER WORK TO THE BUREAU OF INDIAN AFFAIRS AND UTE TRIBE.

FOR TECHNICAL QUESTIONS, PLEASE CONTACT JIM DAVIDSON, CHIEF DRILLING ENGINEER FOR QEP, AT (303) 308-3090.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Jan Nelson

Signature

Title

Regulatory Affairs

Date

July 10, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

BRADLEY G. HILL
ENVIRONMENTAL MANAGER

Date

07-17-08

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

COPY SENT TO OPERATOR

Date: 7-18-2008

Federal Approval of this
Action Is Necessary

Initials: JS

RECEIVED

JUL 15 2008

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

| <u>Formation</u> | <u>Depth</u> |
|------------------|--------------|
| Uinta | Surface |
| Green River | 2,558' |
| Wasatch | 6,008' |
| Mesaverde | 9,208' |
| Sego | 11,656' |
| Castlegate | 11,753' |
| Blackhawk | 12,081' |
| Mancos Shale | 12,537' |
| Mancos B | 12,961' |
| Frontier | 15,883' |
| Dakota Silt | 16,614' |
| Dakota | 16,783' |
| TD | 17,183' |

2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas. Or other mineral bearing formations are expected to be encountered are as follows:

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| Gas | Wasatch | 6,008' |
| Gas | Mesaverde | 9,208' |
| Gas | Blackhawk | 12,081' |
| Gas | Mancos Shale | 12,537' |
| Gas | Mancos B | 12,961' |
| Gas | Dakota | 16,983' |

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

DRILLING PROGRAM

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right # A36125 (which was filed on May 7, 1964,) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal Site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. **Operator's Specification for Pressure Control Equipment:**

- A. 13-5/8" 5000 psi double gate, 5,000 psi annular BOP (schematic included) from surface hole to 9-5/8" casing point. A 13-5/8" 10,000 psi double and single gate may be substituted based on contractor availability and substructure height of the drilling rig.
- B. 11" or 13-5/8" 10,000 psi double gate, 10,000 psi single gate, 10,000 psi annular BOP (schematic included) from 9-5/8" casing point to total depth. The choice of BOP stacks is based on the drilling contractor's availability.
- C. Functional test daily
- D. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- E. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 10M system and individual components shall be operable as designed.

DRILLING PROGRAM

4. Casing Design:

| Hole Size | Csg. Size | Top (MD) | Bottom (MD) | Mud Weight | Wt. lb/ft | Grade | Thread | Cond. |
|-----------|-----------|----------|-------------|------------|-------------|---------|--------------|-------|
| 26" | 20" | sfc | 40-60' | N/A | Steel | Cond. | None | Used |
| 17-1/2" | 13-3/8" | sfc | 500' | N/A | 54.5 | K-55 | STC | New |
| 12-1/4" | 9-5/8" | sfc | 5,408' | 9.2 | 47 | HCP-110 | Flush Jnt ** | New |
| 8-1/2" | 7" | Surface | 9,000' | | 26 | HCP-110 | LTC | New |
| 8-1/2" | 7" | 9000' | 12,597' | 13.5 | 29 SDrift * | HCP-110 | LTC | New |
| 6-1/8" | 4-1/2" | sfc | 13,000' | | 15.1 | P-110 | LTC | New |
| 6-1/8" | 4-1/2" | 13,000' | 15,000' | | 15.1 | Q-125 | LTC | New |
| 6-1/8" | 4-1/2" | 15,000' | 17,183' | 15.1 | 16.6 | Q-125 | LTC | New |

| Casing Strengths: | | | | Collapse | Burst | Tensile (minimum) |
|-------------------|----------|---------|-----|------------|------------|-------------------|
| 13-3/8" | 54.5 lb. | K-55 | STC | 1,130 psi | 2,730 psi | 547,000 lb. |
| 9-5/8" | 47 lb. | HCP-110 | LTC | 7,100 psi | 9,440 psi | 1,213,000 lb. |
| 7" | 26 lb. | HCP-110 | LTC | 7,800 psi | 9,950 psi | 693,000 lb. |
| 7" | 29 lb.* | HCP-110 | LTC | 9,200 psi | 11,220 psi | 797,000 lb. |
| 4-1/2" | 15.1 lb. | P-110 | LTC | 14,350 psi | 14,420 psi | 406,000 lb. |
| 4-1/2" | 15.1 lb. | Q-125 | LTC | 15,840 psi | 16,380 psi | 438,000 lb. |
| 4-1/2" | 16.6 lb. | Q-125 | LTC | 19,010 psi | 18,130 psi | 493,000 lb. |

* Special Drift

** Flush Jnt – VAM SLIJ II or LT&C based on availability

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125

BURST: 1.10

TENSION: 1.80

DRILLING PROGRAM

Area Fracture Gradient: 0.9 psi/foot
Maximum anticipated mud weight: 14.8 ppg
Maximum surface treating pressure: 12,500 psi

5. Cementing Program

20" Conductor:

Cement to surface with construction cement.

13-3/8" Surface Casing: sfc – 500' (MD)

Slurry: 0' – 500'. 610 sxs (731 cu ft) Premium cement + 0.25 lbs/sk Flocele + 2% CaCl₂.
Slurry wt: 15.6 ppg, slurry yield: 1.20 ft³/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc – 5,408' (MD)

Lead Slurry: 0' – 4,908'. 1411 sks (370 bbls) Foamed Lead 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset + 1.5 % Zonesealant 2000 (foamer) Slurry wt: 14.3 ppg, (unfoamed) or 11.0 ppg (foamed). Slurry yield: 1.47 ft³/sk (unfoamed), Slurry volume: 12-1/4" hole + 35% excess.

Tail Slurry: 4,908' – 5,408'. 115 sks (30 bbls) Tail 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset. Slurry wt: 14.3 ppg, Slurry yield: 1.47 ft³/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: sfc - 12,597' (MD)

Foamed Lead Slurry 2: 0' – 12,097'. 1662 sks (2444 cu ft) 0.1% HALAD-766 (Low Fluid Loss Control); Slurry Yield: 1.47 ft³/sk; 5 lbm/sk Silicalite Compacted (Light Weight; Additive) Total Mixing Fluid: 6.40 Gal/sk; 20 % SSA-1 (Heavy Weight Additive); 0.1 % Versaset (Thixotropic Additive); 1.5 % FDP-C760-04 (Foamer) 35% excess.

Tail Slurry: 12,097' – 12,597'. 60 sks (79.3 cu ft) 0.1% HALAD-766 (Low Fluid Loss Control) Slurry Yield: 1.47 ft³/sk; 5 lbm/sk Silicalite Compacted (Light Weight Additive) Total Mixing Fluid: 6.40 Gal/sk; 20 % SSA-1 (Heavy Weight Additive); 0.1% Versaset (Thixotropic Additive); 1.5% FDP-C760-04 (Foamer).

4-1/2" Production Casing: sfc - 17,183' (MD)

Lead/Tail Slurry: 6,000' - 17,183'. 942 sks (1402 cu ft) Premium Cement + 17.5% SSA-1, + 4% Microbond HT, + 0.2% Halad 344 + 0.5% Halad 413, + 0.3% CFR-3, + 0.9% HR-12, + 0.2% Super CBL, + 0.2% Suspend HT, 17.5% SSA-2. Slurry wt: 16.2 ppg, Slurry yield: 1.49 ft³/sk, Slurry volume: 6-1/8" hole + 35% in open hole section.

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface on the intermediate strings and 6,000' on the production string. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

DRILLING PROGRAM

6. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – yes
- C. Monitoring equipment on the mud system – visually and/or PVT/Flow Show
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
If drilling with air the following will be used:
- F. Request for Variance

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 500 feet and high pressures are not expected.

1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
2. **Blooiie line discharge 100 feet from wellbore and securely anchored** – the blooiie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
3. **Automatic ignitor or continuous pilot light on blooiie line** – a diffuser will be used rather than an automatic pilot/ignitor. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
4. **Compressors located in the opposite direction from the blooiie line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the blooiie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
5. **Kill Fluid to control well** – In lieu of having mud products on location to kill the well for an unanticipated kick, Questar will kill the well with water contained in a

DRILLING PROGRAM

400 bbl tank on site. The 400 bbl water tank will also be storage for surface casing cement water.

6. **Deflector on the end of the blooie line** – Questar will mount a deflector unit at the end of the blooie line for the purpose of changing the direction and velocity of the air and cuttings flow into the reserve pit. Changing the velocity and direction of the cuttings and air will preserve the pit liner. In the event the deflector washes out due to erosion caused by the sand blasting effect of the cuttings, there will be no problem because the deflector is mounted on the very end of the blooie. A washed out deflector will be easily replaced.
 7. **Flare Pit** – there will be no need of a flare pit during the surface hole air drilling operation because the blooie line is routed directly to the reserve pit. When the big rig arrives for the main drilling after setting surface casing, a flare box will be installed and all flare lines will be routed to the flare box.
- G. All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Intermediate holes will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. The production hole will be drilled with oil base mud (OBM). No chromates will be used. Maximum anticipated mud weight is 14.8 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

7. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated
- C. Logging – Mud logging – 2500' to TD
GR-SP-Induction, Neutron Density, FMI
- D. Formation and Completion Interval: Mancos interval, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

DRILLING PROGRAM

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 13,000 psi. Maximum anticipated bottom hole temperature is 310° F.

9. Additional Information For Oil Base Mud

- A. See attached diagram of well pad layout. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The pit will be lined with a synthetic reinforced liner, 30 millimeters thick, with sufficient bedding used to cover any rocks prior to putting any fluids into the pit. The pad will be designed so that runoff from adjacent slopes does not flow into the reserve pit. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. At the beginning of drilling operations this reserve pit will have an open-ended dike placed in the pit that allows the fluids to migrate from one side of the pit to the other during the drilling of the surface and intermediate hole using water based mud. At the time that operations begin to drill the production hole with oil base mud, this dike will be extended, dividing the pit into two distinct, isolated halves allowing no migration of fluids from one side to the other. At that time all fluids will be removed from the end of the pit to be used as a cuttings pit. This cuttings pit will be used for oil based cuttings generated during drilling of the production hole.
- B. Oil-base mud will be mixed in the closed circulating system and transferred to four 500-bbl tanks on location for storage prior to and after drilling operations. Drip pans will be installed below the rotary beams on the substructure and can be viewed on site from the cellar area. As the production section of the hole is drilled, the cuttings transported to the surface with the drilling fluid will be mechanically separated from the drilling fluid as waste by two shale-shakers and then cleaned/dried via a mud cleaner and/or centrifuge. These separated cuttings will be transferred to the cuttings pit nearest the shakers and stored in this cuttings pit for solidification after the rig is released and moved off location.
- C. The means to transport the cuttings from the solids control equipment to the OBM cuttings pit will be by 10" PVC pipe or equivalent steel piping. Water will be pumped to the solids control equipment and will convey the OBM cuttings from the solids

DRILLING PROGRAM

control equipment to the OBM cuttings pit via the PVC pipe. The water will be recycled multiple times from the cuttings pit to continue to transport the cuttings to the cuttings pit. The conveyance system will be enclosed on the solids control end to prevent spills. The conveyance piping system at the cuttings pit end will be placed on top of pit liner to eliminate absorption of fluids into the soil.

- D. Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the fluid containment system after drilling will also be placed into the cuttings half of the pit.
- E. All rig ditches will be lined and directed to a lined sump for fluid recovery. A drip pan will be installed on the BOP stack, a mud bucket will be utilized as needed on connections and a vacuum system will be used on the rig floor for fluid recovery in those areas.
- F. Once all waste has been placed in the cuttings portion of the pit and all necessary approvals obtained, the oilfield waste management consultant Soli-Bond or a similar company will mobilize equipment and personnel to the site to perform the cement based solidification/stabilization process in-situ for encapsulation. Soil will be backfilled over the processed material used on the cuttings side of the pit and that portion of the pit area will be returned to the existing grade bordering the pit. Please see the attached Soli-Bond Proposal for Processing and Disposal of Drilling Waste for specific details. The half of the reserve pit containing water base materials will be left to evaporate and will be closed and reclaimed at the time that portion of the pit is dry.

DRILLING PROGRAM

BOP Requirements:

13-5/8" Rotating Head

13-5/8" 5M Spacer Spool

13-5/8" 10M Annular

13-5/8" 10M Double Ram

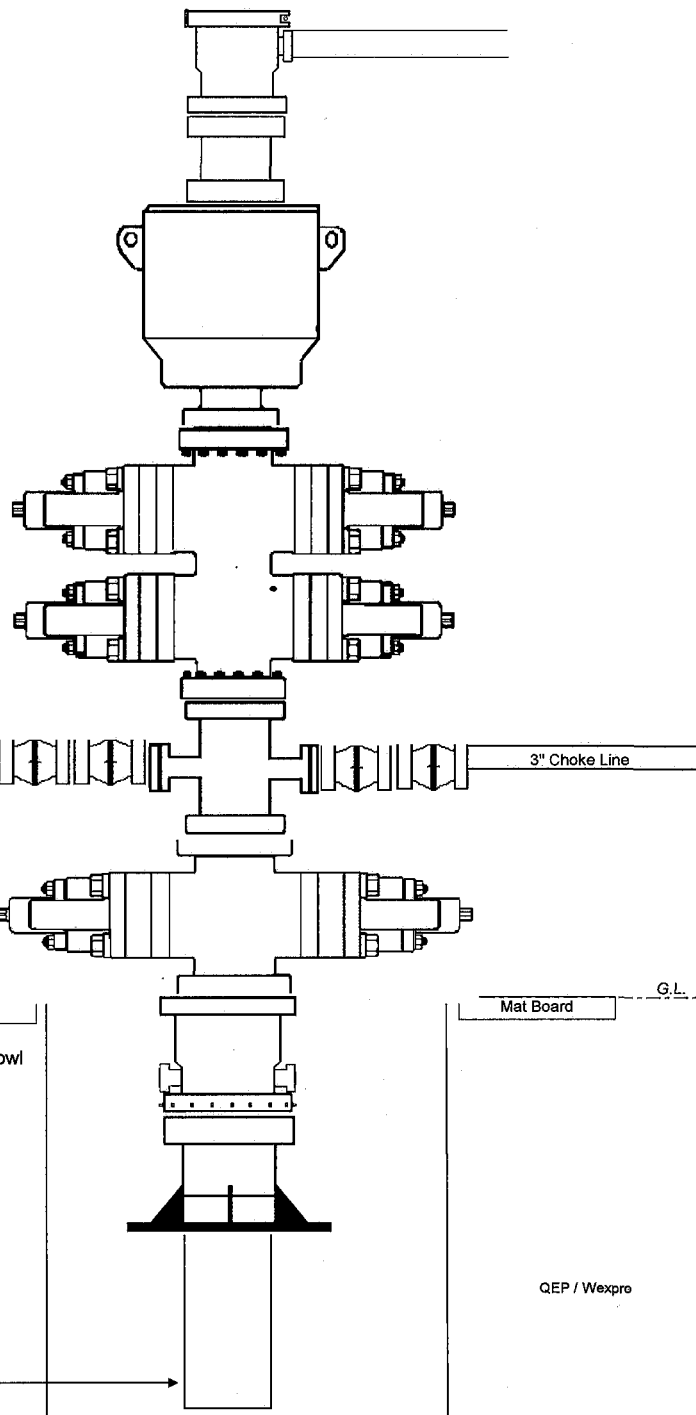
13-5/8" 10M Mud Cross

13-5/8" 10M Single Ram

G.L.
Mat Board
13-5/8" 5M x 13-5/8" 10M Multi-Bowl
"B" Sect

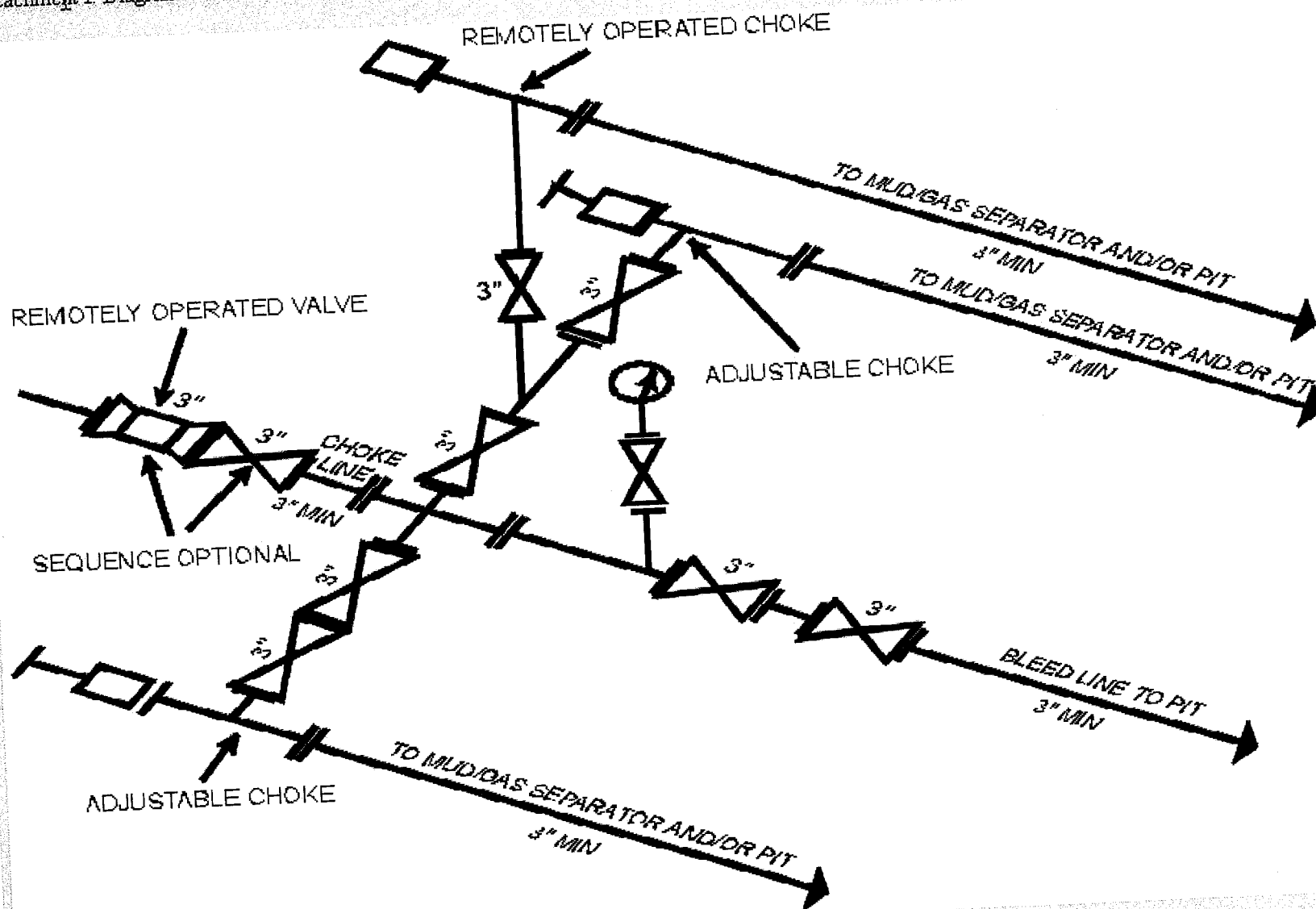
13-5/8" 5M "A" Section

13-3/8" 54.5# K55 Casing



QEP / Wexpro

Attachment I. Diagrams of Choke Manifold Equipment

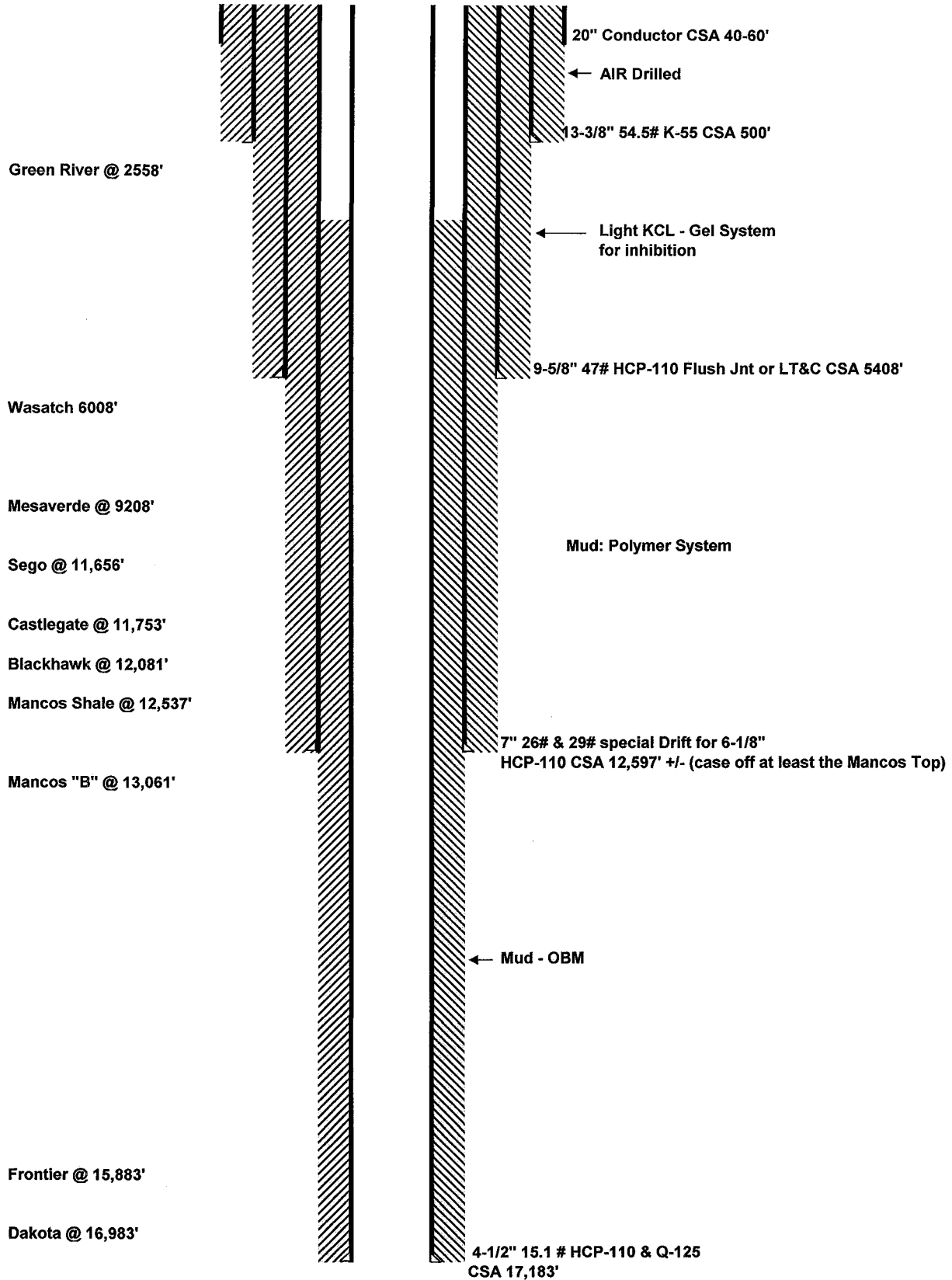


I-4 10M and 15M Choke Manifold Equipment -- Configuration of chokes may vary

[54 FR 39528, Sept. 27, 1989]

Last Updated March 25, 1997 by John Broderick

GH 6-20-8-21





**Questar
Exploration &
Production Company**

GH 6-20-8-21

***Sec 20-T8S-R21E
Uintah County, Utah***

Drilling Fluids Program

***410 17th Street, Suite 460 Denver, CO 80202
(303) 623-2205 (720) 904-7970 Fax***



Newpark Drilling Fluids, LP

410 17th Street, Suite 460

■ Denver, Colorado 80202

■ (303) 623-2205

■ FAX (720) 904-7970

July 9, 2008

Jim Davidson
Questar E&P
1050 17th Street, Suite 500
Denver, CO 80265
Chief Drilling Engineer

RE: GH 6-20-8-21
Sec 20-T8S-R21E
Uintah Co, Utah

Mr. Davidson:

Newpark Drilling Fluids, LP is pleased to present the enclosed revised recommended drilling fluids program for the GH 6-20-8-21 well to be drilled in Uintah County, Utah. This program is for drilling with KCL Water/FlexFirm and/or light mud in the 1st intermediate to 5,408 ft, a polymer fluid system in the 2nd intermediate interval to 12,597 ft, then to T.D. at 17,183 ft with OBM.

The Surface Interval will be pre-set at a depth of 500 ft.

For the 1st intermediate Interval, a light KCL /Flex Firm drilling fluid is planned. Lightly mud up before drilling into the Trona/Water flood area and/or before Intermediate T.D.

Brine kill pills may be needed for trips, logs, and casing operations, depending on pressure encountered while drilling. Trona water flows in this area may require a mud weight of 9.5-9.8 ppg to control. Water flood area's in the Green River may need 10.2-10.5 ppg mud weight to control. A mud-up will be recommended before 1st Intermediate T.D. at 4,000' +/- . Mud-up to a NewPHPA/Polymer system. Required mud weight at interval T.D. at 5,408' is expected to be in the 8.8-9.0 ppg range.

In the 2nd intermediate interval, drill out with the KCL system from the previous interval.. Mud weight in this interval is expected to be in the 10.5-11.0 ppg range at the 12,597 ft liner interval T.D. Extreme losses have been encountered in this interval on offset wells.

In the Production interval, displace to a 13.0-14.0 ppg OptiDrill OBM system. Maintain fluid density as low as possible to increase penetration rates and reduce the possibility of lost circulation. Use high weight pills for well control during; trips, logs, and casing operations. Mud weight at T.D. is expected to be at +/-15.5 ppg.

The projected drilling time for this project is 45-50 days with an estimated material and engineering cost of \$300,000.00 assuming no unusual delays or problems are encountered. The estimate is based on minimal losses and a 15.0 ppg mud weight at TD. Costs will increase dramatically if severe losses are encountered.

All sack material and bulk barite will be furnished from our Grand Junction, Colorado and Myton, UT facilities with OBM supplied from Newpark's Boulder, WY facility.

If you have any questions following your review of this proposal, please call.

Regards,

Estes Ward
Operations Manager
Newpark Drilling Fluids, LP

Project Summary

Questar
Exploration & Production
GH 6-20-8-21
Sec 20-T8S-R21E
Uintah, County Utah

| Depth (ft) | Formations | Interval Comments | Mud Weight (ppg) | Mud Properties |
|-------------|---|--|------------------|---|
| 500' | Uinta Surface T.D. | Hole size: 17 1/2" / Casing: 13 3/8" AIR DRILLED | NA | NA |
| 2,558' | Green River Birds Nest Mahogany | KCL/FlexFirm Hole size: 12-1/4" / Casing: 9 5/8" Drill out with KCL water. Maintain K silicate with 1-3 sks per 100 ft. Pump pre-hydrated NewGel or Flowzan /New Gel sweeps for increased hole cleaning and for any tight hole and/or torque. For trips, spot heavy brine if needed for trona flow, and at intermediate T.D. check hole conditions and spot high viscosity mud if needed. If hole conditions dictate a mud-up, convert the system to a KCL/Polymer system. | 8.4-8.8 | Vis (sec/qt): 27-36 PV (cp): 0-8 YP (#s/100ft ²): 0-10 FL (ml/30 min): NC-20 LGS %: < 1%-3% pH: 10.5-10.8 Cl (mg/l): 15-20K |
| 5,408' | G1 Lime Intermediate T.D. | Mud weight required at T.D. is expected to be in the 8.8-9.0 ppg range | 8.8-9.0 | KCL: 3% |
| 6,008' | Wasatch | NewPHPA/Polymer Hole size: 8.5" / Liner: 7" | 9.1-9.4 | Vis (sec/qt): 40-45 |
| 9,208' | Mesa Verde | Mud up as hole conditions dictate to a NewPHPA/ Polymer system. Maintain properties as outlined in-creasing the PHPA concentration to 1 ppb. | 9.2-9.5 | PV (cp) : 12-20 YP (#s/100ft ²) : 10-12 |
| 11,656' | Sego | Lost circulation may be a problem in this interval. If lost circulation is encountered, pump LCM pills as needed. If LCM pills will not control losses, by-pass the shakers and increase the LCM concentration in the system as needed. | 10.0-10.5 | FL (ml/30 min): 6-8 LGS %: 3-5 |
| 11,753' | Bucktongue | If severe lost circulation is encountered, consider a DynaPlug squeeze. | 10.5 | pH: 10.0-10.5 Cl (mg/l): 11-15K |
| 12,081' | Castlegate | Hole instability may be encountered in the Mesa Verde. Monitor torque, pump pressure, connection fill, and trip conditions for indications of hole instability and consider adding Asphalt if hole conditions dictate. | 10.5-11.0 | PHPA: 1.0 ppb |
| 12,537' | Blackhawk | | | |
| 12,597' +/- | Blachawk SS Mancos Inter. 2 T.D. | | | |
| 13,061' | Mancos B | OptiDrill OBM Hole size: 6-1/8" / Casing: 4-1/2" Drill out with the OptiDrill system, treating cement contamination as needed with OptiWet to prevent shaker blinding. Maintain hole cleaning during high ROP's with high viscosity sweeps. Use a 1:1 ratio of OptiVis RM and OptiVis. CO2 in the gas stream while drilling under balanced will require additional Lime, emulsifiers and wetting agent. | 14.0 | PV (cp): 15-25 YP (lbs/100ft ²): 8-10 HPHT (mls/30 min.) : <20 |
| 15,883' | Frontier equiv. | | 14.6 | O/W : 80:20 - 85:15 |
| 16,983' | Dakota Silt Dakota | | 15.0 | ES: 500+ |
| 17,183' | Total Depth | Maintain mud weight as needed for well control. Spot high weight ECD pills for trips, logs, and casing operations. | 15.5 | Lime: 2-4 ppb LGS %: < 6 |



Newpark Drilling Fluids, LP

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Project Summary

Questar
Exploration & Production
GH 6-20-8-21
Sec 20-T8S-R21E
Uintah, County Utah

DRILLING FLUID PROPERTIES

Surface Hole: Air Drilled

| Hole Size (in) | TVD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | Total Solids (%) |
|----------------|----------|------------------|------------------------|--------------------------------------|---------------------------|------------------|
| 17-1/2 " | 0-500' | NA | NA | NA | NA | NA |

1st Intermediate Hole: KCL/FlexFirm

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | Chloride Mg/l (x1000) | LGS Solids (%) |
|----------------|---------------|------------------|------------------------|--------------------------------------|---------------------------|-----------------------|----------------|
| 12-1/4" | 500'- 4,000' | 8.6-8.8 | 2-8 | 0-4 | NC-20 | 15-20 | 1-3% |
| 12-1/4" | 4,000'-5,408' | 9.3-9.5 | 8-12 | 8-10 | 10-12 | 15-20 | 3-5% |

2nd Intermediate Interval: NewPHPA/Polymer

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | pH | LGS Solids (%) |
|----------------|-----------------|------------------|------------------------|--------------------------------------|---------------------------|-----------|----------------|
| 8-1/2" | 5,408' -10,000' | 9.3-9.8 | 6-12 | 6-10 | 8-10 | 10.0-11.0 | 3-6% |
| 8-1/2 " | 10,000'-12,597' | 10.5-11.0 | 12-18 | 12-15 | 6-8 | 10.0-11.0 | 3-6% |

Production Interval: OptiDrill OBM

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | O/W Ratio (%) | HPHT Fluid Loss (ml/30min) | CaCL (mg/l) X 10,000 | Electrical Stability (mv) | LGS Solids (%) |
|----------------|-----------------|------------------|------------------------|--------------------------------------|---------------|----------------------------|----------------------|---------------------------|----------------|
| 6-1/8 " | 12,597'-17,183' | 15.0-15.5 | 20-30 | 8-10 | 85/15 | 12-15 | 250-350 | 500 + | 3-6 |

- Drilling fluid properties are guidelines only.
- Mud weights for guidelines only, allow hole conditions to dictate actual mud weights.
- Hole conditions should be closely monitored and product mix adjusted accordingly.



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1st Intermediate Interval

12-1/4" Hole (500' - 5,408')

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GH 6-20-8-21
Sec 20-T8S-R21E
Uintah, County Utah

| 1st Intermediate Interval Drilling Fluid Properties | | | | | | | | | |
|---|------------------|--------------------|------------------------|--------------------------------------|-----------|---------------------------|---------|--------------------|------------------------|
| Depth Interval (TVD) | Mud Weight (ppg) | Viscosity (sec/qt) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | pH | API Fluid Loss (ml/30min) | KCL (%) | Low Gravity Solids | Chlorides Mg/l (x1000) |
| 500' - 5,408' +/- | 9.0-9.5 | 28-36 | 2-10 | 0-8 | 10.0-11.0 | NC-20 | 3.0 | <1.0 | 15-20 |

- Drill out with KCL water maintaining KCL % at 3.0.
- Mix FlexFirm at 3 sks per 100 ft drilled for hole stability and reduced bit balling.
- If a water flow is encountered, treat as needed for carbonates.
- Pump pre-hydrated NewGel and/or Flowzan/SaltGel sweeps for increased hole cleaning, along with LCM sweeps for seepage (Paper LCM while drilling with water)
- If water flows are encountered, spot heavy brine pills for trips, logs and casing operations.
- If hole conditions dictate a mud-up, convert the KCL water to a KCL/Polymer system.
- **Shallow gas/overpressure was encountered on some offsets in the area at 3,700-4,000'. A 9.5-9.9 ppg fluid was needed to control pressure.**

| Challenges: | Strategies: |
|----------------------------------|---|
| Gravel/Unconsolidated formation | If encountered, pump sweeps of pre-hydrated NewGel with a viscosity of 150 -300 sec/qt. |
| Water Flows (Trona) | If water flows become excessive, control hydrostatic as needed with air additions and fluid density. |
| Lost Circulation | While drilling with water, pump LCM sweeps consisting of paper. If drilling with mud, pump mixed LCM pills in the 20-30% LCM range. |
| Hole Cleaning | Pump sweeps on a regular basis and for any indications of insufficient hole cleaning. Circulate and pump sweeps before connections and for any anticipated down time. |
| Increase ROP with PDC Bits | Pump 20-40 bbl. Sweeps with NewEase 203, New100N, DynaDet, and SAPP. (FlexDrill Sweeps) |
| Hole Instability/Sloughing Shale | Consider a mud-up and Asphalt additions. |



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1st Intermediate Interval

12-1/4" Hole (500 - 5,408')

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Offset Data:

- Wells in this area have encountered major losses in the Birds Nest.
- Gravel/unconsolidated formation has been encountered at 1380 ft.
- Gas/overpressure has been encountered at 3,700'-4,000'.

Fluid Recommendations:

- Drill out cement, float collar and new formation. Test the integrity of the casing seat and squeeze if necessary.
- Drill out with Saltwater, aerating as needed to maintain circulation.
- If water is encountered, control flow with reduced air and fluid density.
- If a Trona Water flow is encountered additions of **Lime** and/or **Calcium Chloride** should be used to adjust alkalinities as needed.
- The use of a premix tank is highly recommended. Pre-Hydrate **NewGel** for use as sweeps and for viscosity when a mud up is needed. Fill premix tank with fresh water. Treat out hardness with **SodaAsh** as needed. Add 0.25-0.5 ppb **Caustic Soda** for a 10.0-10.5 pH. Begin additions of 20-25 ppb **NewGel** allow sufficient circulating time for maximum hydration. Add 1.0-2.0 ppb **CFL II**. Then mix additional **NewGel** (30-40 ppb total) or a 120+ funnel viscosity. The pre-hydrated bentonite can be pumped from the premix to the pill tank and pumped downhole for sweeps or can be added slowly to the **Saltwater** for viscosity and rheology control.
- If penetration rates slow sweeps with **New 100N**, **NewEase 203**, **SAPP**, and **DynaDet** should be considered. (1% **New 100N**, 1% **NewEase 203**, 0.5-0.75 ppb **SAPP**, 0.2 % **DynaDet**). "**Flex Sweeps**"
- For trips, an increase in mud weight may be necessary to kill water flows. 9.8-10.0 ppg brine should be considered for this operation.
- Seepage and/or lost circulation may become a problem. For seepage while drilling with water, pump 20-30 bbl pills containing Paper LCM.
- If losses become severe, consider a mud up and LCM sweeps of **Cedar Fiber** and **FiberSeal** should be pumped and incorporated into the system as needed. If losses continue, increase coarse LCM in active system to 15-20%. If losses continue the use of a **New X-Prima Squeeze** is strongly recommended.
- At TD increase funnel viscosity for logs and casing operations as hole conditions dictate. Suggest funnel viscosity be increased to 45-50 sec/qt, before logging operations be attempted.
- At 5,408' (intermediate T.D.) short trip, check hole conditions. If hole conditions dictate, add pre-hydrated **New-Gel** from the premix tank to the active system to increase funnel viscosity to 45-50 sec/qt and spot in the open hole for logs and casing operations

DRILL STRING PACK-OFF: Rapid penetration rate during fast drilling often deteriorates to pack-off, a situation which can lead to lost circulation and/or stuck pipe. Pack-off is typically self-induced by exceeding the maximum rate of penetration for a given annular flow rate. The solution to this is to control the penetration rate to a level that the pumps can adequately clean the hole while maintaining rheological properties in line with existing hydraulic parameters.

SOLIDS CONTROL: It is of the utmost importance that the shale shakers and flow line cleaners be equipped with the finest screens possible, and yet handle the flow rate. The desander and desilter units should be evaluated periodically and serviced to maximize performance.



Newpark Drilling Fluids, LP

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2nd Intermediate Interval

8-1/2" Hole (5,408' - 12,597')

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Exploration & Production
GH 6-20-8-21
Sec 20-T8S-R21E
Uintah, County Utah

| 2nd Intermediate Interval Drilling Fluid Properties | | | | | | | | |
|---|------------------|--------------------|------------------------|--------------------------------------|-----------|---------------------------|----------------|--------------------|
| Depth Interval (TVD) | Mud Weight (ppg) | Viscosity (sec/qt) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | pH | API Fluid Loss (ml/30min) | Hardness Mg/l) | Low Gravity Solids |
| 5,408'-10,000' | 9.0-9.5 | 32-36 | 6-12 | 6-10 | 10.0-11.0 | 8-10 | 100+ | 4-6 |
| 10,000'-12,597' | 10.5-11.0 | 45-50 | 10-18 | 12-14 | 10.0-11.0 | 6-8 | 100+ | 4-6 |

- Drill out with water and or mud as hole conditions dictate. After mud-up , allow the system to revert to a fresh water polymer system.
- As mud weight is increased, seepage losses can become severe. Treat with LCM pills as needed. If pill treatments will not contain the losses at reasonable levels, by-pass the shakers, retaining the pills and allowing the LCM concentration to increase as needed.
- Hole instability can occur in the Mesa Verde in this area. If encountered, consider adding Asphalt, building to a 4-6 ppb concentration.
- High pressure may be encountered in the Castlegate/Blackhawk. Monitor closely for increased pressure while drilling and use caution on trips to minimize possible swabbing.
- Mud weight at Intermediate #2 T.D. is expected to be in the 10.5-11.0 ppg range.
- The use of ECD pills for trips to maintain a low mud weight for drilling has been used successfully on offset wells.
- Spotting a LCM pill on bottom during trips has decreased losses in the area.

| Challenges: | Strategies: |
|----------------------------------|---|
| Hole Instability/Sloughing Shale | Consider 4-6 ppb Asphalt |
| Increase in Formation pressure | Monitor well conditions and increase density as needed with NewBar as needed. |
| Seepage/Lost Circulation | As mud weight is increased (10.0ppg +) seepage and losses may become a problem. For seepage pump 50 bbl sweeps with 5-10 ppb DynaFiber and 10-20 ppb NewCarb as needed. For partial or total losses pump sweeps with 10-15 ppb FiberSeal and Cedar Fiber . Severity of losses will determine size and quantity of LCM added. If losses are not controlled with sweeps consider 10-15% LCM in active system. For severe losses the use of a New X-Prima squeeze should be considered. |
| Differential Sticking | Maintain mud weight as low as possible. Control Low Gravity Solids below 6%, and control fluid loss at 8-10 mls/30 min. |
| Increase ROP with PDC Bits | Pump 20-40 bbl. Sweeps with NewEase 203, New100N, DynaDet, and SAPP. (FlexDrill Sweeps) |



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2nd Intermediate Interval

8-1/2" Hole (5,408'-12,597')

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Offset Data:

Wells in this area have experienced losses as mud weights are increased to control formation pressure. LCM sweeps are strongly recommended for this reason. Mud weights should be kept as low as practical but increases to 11.2 ppg may be required by 2nd Intermediate TD at 12,597'.

- Loss zones on offset wells were at 9200 ft and 9500 ft.
- Losses were encountered at 10,200' on the WV 11AD-14-8-21

Fluid Recommendations:

- Drill out cement, float collar and new formation with the system from the previous interval. Test the integrity of the casing seat and squeeze if necessary.
- Drill out with water and or mud. If drilling out with water consider a mud up by +/- 7500 ft or as hole conditions dictate.
- Begin additions of 0.5-1.0 ppb **NewPHPA** and maintain throughout the interval.
- Maintain viscosity with PreHydrated **NewGel** until chlorides have dropped below 5000-7000 mg/l. After chlorides have dropped **NewGel** will not need to be pre-hydrated and can be added directly to the system.
- Begin additions of **NewPHPA**. Concentration of **NewPHPA** should be maintained at 0.5-1.0 ppb throughout the interval. As mud weight increases additions of **PHPA** should be switched from **NewPHPA DLMW** to the shorter chain **NewPHPA DSL**.
- If hole conditions dictate, consider 4-6 ppb Asphalt.
- If penetration rates slow sweeps with **New 100N**, **NewEase 203**, **SAPP**, and **DynaDet** should be considered. (1% **New 100N**, 1% **NewEase 203**, 0.5-0.75 ppb **SAPP**, 0.2 % **DynaDet**). "**Flex Sweeps**"
- Increase mud weight as needed to control formation pressures as needed. Mud weights should be maintained as low as practical to reduce chance of losses and differential sticking. Increase mud weight as needed with **NewBar**.
- As density increases additions of **NewEdge** and/or **DrillThin** should be added for rheology control.
- As bottom hole temperatures increase and additional fluid loss control is desired supplement the **AquaBlock** with **NewPac** for fluid loss control. Lower API filtrate to 6-8 cc's with additions of **NewPAC** and **AquaBlock**.
- As mud weight is increased seepage and/or lost circulation may become a problem. For seepage pump 20-30 bbl pills containing a combination of **NewCarb** and **DynaFiber** mixed at a 2:1 ratio. If partial or total returns are encountered, LCM sweeps with a varied size distribution including **Cedar Fiber** and **Fiber Seal**, **PhenoSeal** and other assorted sizes should be considered and incorporated into the system as needed. 20-25% LCM in the active system may be required. The type, size and quantity of LCM used will depend on the severity of losses. If losses are severe a **New X-Prima** squeeze should be considered.
- At TD increase funnel viscosity for logs and casing operations as hole conditions dictate. Suggest funnel viscosity be increased to 50-55 sec/qt, before logging or casing operations be attempted.
- While circulating casing it is recommended to reduce Yield Points for cementing operations.



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Production Interval

6-1/8" Hole (12,597'-17,183')

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GH 6-20-8-21
Sec 20-T8S-R21E
Uintah, County Utah

Production Interval Drilling Fluid Properties

| Depth Interval (TVD) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | O/W Ratio % | HPHT Fluid Loss (ml/30min) | Excess Lime (PPB) | Electrical Stability (MV) | Low Gravity Solids | CaCl Mg/l Water |
|----------------------|------------------|------------------------|--------------------------------------|-------------|----------------------------|-------------------|---------------------------|--------------------|-----------------|
| 12,597'-17,183' | 15.0-15.5 | 25-35 | 8-10 | 85:15 | 10-20 | 2-4 | 500+ | < 6 | 300K |

Drilling Fluid Recommendations: (12,597'-17,183')

- Displace to a OptiDrill OBM after finishing the casing job at 12,597'.
- After displacement, maintain the OptiDrill system within the parameters outlined above.
- Offsets in the area have encountered high rates of seepage in this interval. If indications of seepage are observed, sweeps of NewCarb C, Dynafiber C & M, NewSeal, and CyberSeal are recommended. Mixing ratios are recommended to be at 5:1 NewCarb M to DynaFiber, NewSeal, and CyberSeal. If losses continue to be a problem, consider trying different sizes and combinations until seepage is slowed.
- Maintain rheology low to reduce ECD values and reduce surge and swab during connections and trips.
- Drill as underbalanced as possible to help prevent losses and increase penetration rates.
- For pressure control, spot high weight pills with an equivalent mud weight to drilling ECD's. On trips in, stage these pills out and divert to storage for further use. High weight pills in excess of the drilling ECD should be avoided due to possible lost circulation.

| Challenges | Strategies |
|----------------------------|---|
| Displacement | <ul style="list-style-type: none"> • Have 1200-1300 bbls of OBM volume on location along with a pump capable of keeping up with displacement rates. • Pump a 10-20 bbl viscosified OBM spacer ahead of the OptiDrill (enough for 500 ft + separation) • A steady pump rate for either turbulent or plug flow should be used. Reciprocate and rotate to assist in minimizing channeling. • Do not shut down once displacement commences. • Should any contamination occur, isolate the contaminated fluid for reconditioning. |
| Seepage/lost Circulation. | Pump LCM sweeps when seepage and/or losses are indicated. Sweeps should be a mixture of, NewCarb, DynaFiber, NewSeal, and CyberSeal. If lost returns are encountered, consider a Diaseal M or cross linked polymer squeeze. |
| Maintaining Oil wet solids | For every 1.0 ppg mud weight increase, mix 0.02 gal/bbl OptiWet |
| Pressure control | <ul style="list-style-type: none"> • Spot weighted pills calculated to give a bottom hole pressure equal to drilling ECD. • Do not exceed drilling bottom hole pressure with the ECD pill. Lost circulation has been a problem on offset wells. • Stage weighted pills out of the hole and recover for future use. |



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Maintenance Procedure:

HPHT - Maintain HPHT values within programmed parameters. Additions of **OptiMul** and **OptiPlus**, at recommended concentrations should maintain the HTHP at recommended levels. If hole conditions indicate a need for lower HPHT values, **Opti G** at 2-4 ppb is recommended.

Electrical Stability— Electrical stability should be used as a guide not as an absolute in determining maintenance requirements. Actual values are not critical but should be observed for trends or changes. Decreases in electrical stability should be noted along with other mud properties to determine treatments. To increase electrical stability add emulsifiers and wetting agents **OptiMul** and **OptiPlus** or decrease water content.

Oil/Water Ratio - Maintain the oil/water ratio in the 90:10-80:20 range depending on mud weight and condition.. Higher water content will decrease the amount of **OptiVis** needed for rheology.

Mud weight - Maintain minimum fluid densities with solids equipment. Monitor hole conditions and all drilling parameters closely for indications of increases in formation pressures and adjust fluid densities accordingly. Drilling with a minimum amount of overbalance will reduce the possibility of losing returns and/or of differentially sticking the drill string. Mud weight on offset wells was in the 15.0-15.5 ppg range at T.D.

Rheology - Maintain solids as low as possible. Increase rheology as needed for hole cleaning with a combination of **OptiVis (Bentone 910)** and **Opti Vis RM or Opti Vis PS** and water content.

Lime - Maintain the excess Lime at 2-3 ppb excess.

Hole cleaning - Calculate rheology requirements based on ROP, pump rates and hole conditions. Adjust as needed .

Mud losses downhole—Monitor ECD's with Hy-Calc, maintaining the lowest values possible. If losses are encountered; sweeps containing **NewCarb, DynaFiber, Opti-G, and NewSeal** should be circulated to aid in the prevention of losses. If seepage losses continue and/or become severe, consider spotting a pill with **Magma Fiber (Fine & Regular)** and the above formulation. Keep the hole full at all times, and avoid excessive swabbing and/or surge actions when tripping.

Solids Control - Maintain low gravity solids at 4-6 % by volume. The high performance shakers should be equipped with the finest mesh screens that will handle the circulating volume and not cut barite out.

Water Contamination— Keep all water sources off the mud pits. If contamination occurs, treat with emulsifiers and Calcium Chloride as needed.



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Production Interval

6-1/8" Hole (12,597' - 17,183')

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Recommended materials for relaxed filtrate OptiDrill system :
(85:15 Oil/Water Ratio)

| Product | Function | Concentration |
|-------------------------------|---------------------------------|------------------------|
| <i>NewBar</i> | Weighting material | As needed |
| <i>OptiVis</i> | Organophilic Clay / Viscosifier | 2-4 ppb |
| <i>OptiMul</i> | Primary Emulsifier | 2.0 ppb |
| <i>OptiPlus</i> | Secondary Emulsifier | 4.0 gal/bbl. |
| <i>OptiVis RM</i> | Low End Rheology Modifier | 0.1-0.2 ppb |
| <i>Calcium Chloride Water</i> | Internal Phase | 10.0%-20.0 % by volume |
| <i>Calcium Chloride</i> | Salinity/Activity | 300,000 - 350,000 mg/l |
| <i>OptiG</i> | Fluid Loss control Additive | 1.0-4.0 ppb |
| <i>Lime</i> | Alkalinity Additive | 5 ppb |
| <i>NewCarb M</i> | Loss Circulation Material | 10.0 ppb |
| <i>NewCarb F</i> | Loss Circulation Material | As required |
| <i>DynaFiber</i> | Loss Circulation Material | As required |



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QUESTAR EXPLORATION AND PRODUCTION COMPANY

WELLSITE CUTTINGS MANAGEMENT PLAN

UINTA BASIN PROJECT AREA

GH 6-20-8-21

Township: 8 South, Range 21 East

Uintah County, Utah

UINTA BASIN CUTTINGS MANAGEMENT PLAN

Solidifying / Stabilizing Cuttings Pits

1. PROJECT DESCRIPTION

We drill and set conductor, then drill, case and cement surface casing, then drill, run casing, and cement intermediate sections, then finally drill the production holes. This insures that surface water is protected and is not exposed to more saline waters and that treatable water is not exposed to oil based mud (OBM). In addition, water and oil is skimmed off during the various phases for reuse and to minimize the fluid levels in the pit.

The wells to be drilled use oil base drilling fluid during the production section of each well. As the production section of the well is drilled, drill cuttings will be generated and separated from the drilling fluid, then deposited in a single on-site waste pit with synthetic liners (cuttings pit). These oil base mud cuttings (OBMC) are expected to contain elevated levels of adhered entrained hydrocarbons due to their prior contact with the OBM. The OBMC will be collected in a steel catch tank as drilling progresses, moved to the cuttings pit by a wheel loader, and mixed with the water based cuttings generated during drilling of the upper sections of the wellbore.

A state approved contractor will treat the waste placed in the cuttings pit using the solidification/stabilization (S/S) process described below. Prior to beginning the S/S process, the contractor will collect samples of the contents of the cuttings pit for criteria verification. The waste will be treated in place inside the pit and contractor will finish by backfilling the pit constituting final disposal of the drilling waste.

2. GENERAL DESCRIPTION OF THE SOLIDIFICATION/STABILIZATION PROCESS

The S/S process involves the controlled addition of a specially blended Portland-cement-based reagent to the drilled cuttings, OBM and WBM solids and liquids, and makeup water as required followed by thorough mixing of the reagent with the waste to form homogeneous slurry. Hydrocarbons and chlorides in the waste are broken up into very small droplets or "particles" and these particles are dispersed throughout the reagent/waste mixture during the mixing phase. After the mixing phase, an irreversible chemical reaction occurs between the cementitious reagent and water present in the slurry causing the slurry mixture to rapidly transform into a solid granular material. The previously dispersed and isolated particles are immobilized to a very high degree within the interlocked cementitious lattice of each solidified granule. This waste treatment process prevents the hydrocarbons or chlorides from re-coalescing within the processed waste form and reduces their release to the surrounding environment. Chemical properties imparted by the process also stabilize various metals, if present in the waste, by transforming them into less-soluble forms. This in conjunction with the physical entrapment of metals within each solidified granule greatly reduces their availability to the surrounding environment. In summary S/S rapidly transforms physically unstable waste into a stable solid material and reduces the leaching rate of target constituents to such a degree that they can no longer cause harm to the surrounding environment.

3. ESTIMATED VOLUMES PER WELL

| Section | Top | Bottom | Size | Volume, ft3 | Swell | Excess | Tot Vol, ft3 | Tot Vol, bbl |
|-------------------|-------|--------|-------|-------------|-------|--------|--------------|--------------|
| Surface | 60 | 500 | 17.5 | 735.01 | 1.3 | 1.7 | 1624.38 | 289.29 |
| Intermediate | 500 | 5408 | 12.25 | 4017.37 | 1.3 | 1.4 | 7311.62 | 1302.16 |
| Intermediate | 5408 | 12597 | 8.5 | 2833.17 | 1.3 | 1.4 | 5156.36 | 918.32 |
| Production | 12597 | 17183 | 6.125 | 938.45 | 1.3 | 1.3 | 1585.98 | 282.45 |
| Additional Volume | | | | | | | 1937.03 | 345.00 |
| Total per Well | | | | | | | 17615.37 | 3137.22 |

4. PROJECT OBJECTIVES

The S/S objectives are:

- 1 To permanently reduce the leaching rate of target constituents to at or below prescribed limits for confinement in the soil.

1.1 Leachable Oil and Grease will be less than 10 mg/L.

UINTA BASIN CUTTINGS MANAGEMENT PLAN

Solidifying / Stabilizing Cuttings Pits

- 1.2 Leachable Total Dissolved Solids will be less than 5000 mg/L and/or leachable salts will be below acceptable site-specific guidelines.
- 1.3 Compliance with the performance criteria will be certified by a third party accredited testing laboratory utilizing the appropriate tests as prescribed. Laboratory test results will be documented in a closure report submitted to the client and to the required regulatory agencies as may be required after completion of the project.
- 2 To solidify the unconsolidated waste to support backfilling soil cover and resist subsidence.
- 3 Rapid solidification of the waste to reduce pit closure time.
- 4 Minimize waste volume increase to maximize depth of native soil cover over processed material.

5. CONTRACTOR ACTIVITIES

1. Contractor will collect samples of the raw waste and bench test to determine S/S reagent formulation and reagent/waste mix ratios necessary to achieve performance criteria.
2. Contractor will deliver equipment and experienced personnel to the site.
3. Contractor supervisor will conduct a job site safety assessment with crew discussing relevant site safety hazards, required PPE, and accident avoidance. Contractor safety meetings will be held prior to each day's work throughout the project.
4. Contractor and client representative will determine the final actual volume of contents to treat in each pit at the subject site prior to commencing operations.
5. Contractor will construct proper storm drainage protection, if necessary, to surround the pit areas during the project.
6. Contractor will perform preliminary admixing of each pit's contents prior to S/S reagent introduction and prepare the site to facilitate waste processing. Care will be taken to maintain waste containment throughout all processing phases.
7. Contractor will prepare and deliver S/S reagents to the site. Reagents will be added to the pit waste utilizing a special filter-equipped discharge hopper.
8. Contractor will perform the S/S on the waste in-situ in order to chemically solidify the waste and immobilize target constituents of concern within the processed material.
9. After processing all the waste, contractor will collect a composite sample of the processed pit material and submit the sample to a certified third party laboratory for analysis to verify the processed material complies with criteria indicated in the Project Objectives, Section 4.
10. Contractor will place a minimum of three feet (3') of native spoil over the S/S material in the pit in order to backfill to the adjacent grade constituting final disposal of the processed material. Spoil for backfilling will be taken from existing excavated spoils at the site.
11. Contractor will then promptly demobilize equipment and personnel concluding site operations.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: QUESTAR EXPL & PROD COMPANY

Well Name: GH 6-20-8-21

Api No: 43-047-38662 Lease Type: FEDERAL

Section 20 Township 08S Range 21E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # RATHOLE

SPUDDED:

Date 08/22/08

Time 5:00 PM

How DRY

Drilling will Commence: _____

Reported by KERRY SALES

Telephone # (801) 598-5087

Date 08/25/08 Signed CHD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
Oil Gas
☐ Well ☒ Well ☐ Other

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO.

3. Address and Telephone No. Contact: **Dahn.Caldwell@questar.com**
11002 EAST 17500 SOUTH - VERNAL, UT 84078 **435-781-4342 Fax 435-781-4357**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1956' FNL, 1688' FWL, SENW, SEC 20-T8S-R21E

5. Lease Designation and Serial No.
UTU-0140740

6. If Indian, Allottee or Tribe Name
UTE TRIBE

7. If Unit or CA, Agreement Designation
GYPSUM HILLS

8. Well Name and No.
GH 6-20-8-21

9. API Well No.
43-047-38662

10. Field and Pool, or Exploratory Area
WONSITS VALLEY

11. County or Parish, State
UINTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|--|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut-Off |
| | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| | <input checked="" type="checkbox"/> Other <u>SPUD</u> | <input type="checkbox"/> Dispose Water |

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

On 8/22/08 - Drilled 80' of 30" conductor hole. Set 80' of 20" conductor pipe. Cmdt w/ Ready Mix.

3 - BLM, 2- Utah OG&M, 1 - Denver, 1 - file Word file-server

RECEIVED

AUG 25 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Signed Dahn Caldwell Title Office Administrator II Date 8/22/08

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ENTITY ACTION FORM - FORM 6

OPERATOR ACCT. No. N-5085
OPERATOR: **Questar Exploration & Production Co.**
ADDRESS: **11002 East 17500 South**
Vernal, Utah 84078 (435)781-4342

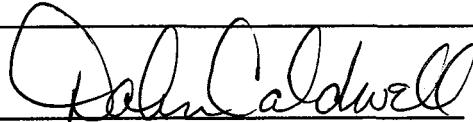
| Action Code | Current Entity No. | New Entity No. | API Number | Well Name | QQ | SC | TP | RG | County | Spud Date | Effective Date |
|-----------------------|--------------------|----------------|--------------|--------------|------|----|----|-----|--------|-----------|---------------------------|
| A | 99999 | 17041 | 43-047-38662 | GH 6-20-8-21 | SENV | 20 | 8S | 21E | Uintah | 8/22/08 | 8/25/08 |
| WELL 1 COMMENTS: DKTA | | | | | | | | | | | CONFIDENTIAL |
| | | | | | | | | | | | |
| WELL 2 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 3 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 4 COMMENTS: | | | | | | | | | | | RECEIVED |
| | | | | | | | | | | | AUG 25 2008 |
| | | | | | | | | | | | DIV. OF OIL, GAS & MINING |
| WELL 5 COMMENTS: | | | | | | | | | | | |

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

(3/89)


Signature
Office Administrator II 8/22/08
Title Date
Phone No. **(435)781-4342**

CONFIDENTIAL

43-047-38662
20 85 21e

Questar E & P

Page 1 of 8

Operations Summary Report

Legal Well Name: GH 6-20-8-21

Common Well Name: GH 6-20-8-21

Event Name: DRILLING

Contractor Name: PRO-PETRO

Rig Name: INGERSOL RAND

Start: 8/24/2008

Rig Release: 8/24/2008

Rig Number: 6

Spud Date: 8/22/2008

End:

Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|--|
| 8/25/2008 | 06:00 - 09:00 | 3.00 | LOC | 2 | DRLCON | SPUD WELL ON 8-22-08 AT 17:00 HRS. |
| | 09:00 - 18:30 | 9.50 | DRL | 9 | DRLSUR | DRILL 30" HOLE 80' DEEP AND SET 20" CONDUCTOR PIPE. |
| | 18:30 - 19:30 | 1.00 | TRP | 3 | DRLSUR | CEMENT WITH READY MIX. PETE MARTIN RAT HOLE. |
| | 19:30 - 22:00 | 2.50 | CSG | 2 | CSGSUR | HAMMER DRILL 17.5" HOLE TO 530' BLOW DOWN WELL. |
| | 22:00 - 23:00 | 1.00 | CMT | 2 | CSGSUR | LAY DOWN DRILL STRING. |
| 9/3/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | RDMO | RUN 12 JOINTS OF 13 3/8" J-55, 68#, BTC CASING AS |
| | | | | | | FOLLOWS:SHOE AT 510', FLOAT COLLAR AT 465.47'. RAN 3 |
| | | | | | | CENTRALIZERS FROM 500' TO 380' AND ONE AT 84'. |
| | | | | | | NOTE: ALL MEASUREMENTS ARE FROM GROUND LEVEL. YOU |
| | | | | | | WILL NEED CASING TEST WHEN YOU TEST BOP'S. |
| 9/4/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | RDMO | CEMENT AS FOLLOWS: PUMP 80 BBL OF FRESH WATER AND 20 |
| | | | | | | BBL OF GEL SPACER. LEAD CEMENT 15.8 PPG, 500 SK, 102 BBL, |
| | | | | | | YEALD 1.15, GAL/SK 5, DISPLACE WITH 69 BBL OF FRESH WATER. |
| | | | | | | PLUG BUMPED TO 800 PSI OK, FCP 300, FLOAT HELD. CEMENT |
| | | | | | | TO SURFACE 24 BBL. |
| 9/5/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | MIRU | WAIT ON CEMENT. |
| | | | | | | CONTACT BLM MICHAEL LEE ON 8-21-2008 AT 14:15 HRS FOR |
| | | | | | | SPODDING ON 8-22-2008 AT 17:00 HRS. |
| | | | | | | CONTACT UTAH STATE ON 8-21-2008 AT 14:30 HRS FOR |
| | | | | | | SPODDING ON 8-22-2008 AT 17:00 HRS. |
| 9/6/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | MIRU | NOTIFIED WONSIT VALLEY AND RED WASH OFFICE FOR |
| | | | | | | SPODDING WELL. |
| | | | | | | CONTACT BLM JAMIE SPARGER ON 8-23-2008 AT 23:00 HRS FOR |
| | | | | | | RUNNING CASING AND CEMENT ON 8-24-2008 AT 16:00 HRS. LEFT |
| | | | | | | VOICE MESSAGE. |

Operations Summary Report

| | |
|--------------------------------|------------------------|
| Legal Well Name: GH 6-20-8-21 | Spud Date: 8/22/2008 |
| Common Well Name: GH 6-20-8-21 | |
| Event Name: DRILLING | Start: 8/24/2008 |
| Contractor Name: PRO-PETRO | End: |
| Rig Name: INGERSOL RAND | Rig Release: 8/24/2008 |
| | Group: |
| | Rig Number: 6 |

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|----------|---------------|-------|------|----------|--------|---|
| 9/6/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | MIRU | MISSING & SOME CRACK) CHANGE OUT OIL FINISHED INSPECTION @ 1630 HRS, PICK UP DERRICK F/ HEAD RACK STRESS LOAD TEST FOR 30 MINUTES & RASIE DERRICK PIN TO A LEGS @ 1800 HRS. FULL INSPECTION WAS CARRIED OUT ON TOP DRIVE FOUND NO DEFECTS & INSPECTED ALL THREAD CONNECTION BY THIRD PARTY R/UP DRY SHAKER & CUTTING LINES TO WASTE PIT HOOK UP ALL ELE. CABLE CHANGE OUT MAIN BLOWER IN SCR HOUSE (MOTOR GOING BAD) REPLACE HYDRAULIC CONTROL VALVE SYSTEM @ DRILLER CONSOLE OBSERVE DURING LAST WELL CONTROL VALVE WAS WASHING OUT CAUSING BREAK OUT CYLINDER NOT TO WORK PROPERLY R/UP KOOMEY LINES, WATER LINES, YELLOW DOG, STALLION OBM FARM TANKS, GROUND RODS, HOPPER HOUSE, |
| | 18:00 - 06:00 | 12.00 | LOC | 4 | MIRU | 80 % RIGGED UP PLAN IS TO CARRY OUT FULL INSPECTION ON MUD PUMPS DURING RIGGING UP TOP DRIVE & RAILS (UNIT WILL HAVE THREE MECHANIC'S ON LOCATION @ 0800 HRS) TO COMPLETE INSPECTIONS |
| 9/7/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | MIRU | CALL GAYLAND RICH (BLM) ABOUT BOP TEST LEFT VOICE MESSAGE @ 12:30 HRS ON 9/6/08, CALL ON 9/5/08 LEFT MESSAGE @ 1430 HRS. R/UP & CARRY OUT INSPECTION ON BOTH MUD PUMPS & ENGINES BY UNITS MECHANIC FOUND NO DEFECTS START WATER CIRCULATION RUN KOOMEY HOSE, LAYDOWN CAT WALK BRIDLE DOWN, RIG UP DERRICK CLIMBER P/UP TOP DRIVE RAILS, HOOK UP SWIVEL, TOP DRIVE RIG UP SERVICE LOOP, HOOK UP TOP DRIVE TO TOP DRIVE HOUSE, PUT ON TURNBUCKLES FOR TOP DRIVE TRACK. 90% RIGGED UP |
| | 18:00 - 06:00 | 12.00 | LOC | 4 | MIRU | |
| 9/8/2008 | 06:00 - 12:00 | 6.00 | LOC | 4 | MIRU | REPLACE LOW CLUTCH DRAWWORKS CHAIN W/ AMERICAN CHAIN R/UP FLOW LINE ATT. TO TORQUE UP TOP DRIVE CONNECTIONS LOST COMMUNICATION W/ DRILLER CONSOLE & TOP DRIVE CALL OUT TECHICAN FOUND DAMAGED CABLE GOING TO TOP DRIVE INSTALL BELLS & ELEVATORS ON TOP DRIVE |
| | 12:00 - 14:30 | 2.50 | BOP | 1 | DRLIN1 | TORQUE UP BOPS CONNECTIONS & PREPARE TO TEST BOPS |
| | 14:30 - 22:00 | 7.50 | BOP | 2 | DRLIN1 | FUNCTION TEST BOPS & P/TEST BOPS W/ LOW 250 PSI & HIGH 5000 PSI |
| 9/9/2008 | 22:00 - 00:00 | 2.00 | OTH | | DRLIN1 | INSTALL WEAR BUSHING & LOW PRESSURE ROTATING HEAD ASSEMBLY |
| | 00:00 - 02:00 | 2.00 | TRP | 1 | DRLIN1 | LAY OUT BHA & STRAP |
| | 02:00 - 06:00 | 4.00 | TRP | 1 | DRLIN1 | M/UP RE-TIP REED MILL TOOTH BIT 12 1/4" & PICK UP 12 1/4 BHA |
| | 06:00 - 07:00 | 1.00 | TRP | 1 | DRLIN1 | CONTINUE TO PICK UP 12 1/4 BHA TAG LANDING COLLAR @ 466' OBSERVE SPEAR LEAKING ON DRAWWORKS DRILLER SIDE |
| | 07:00 - 07:30 | 0.50 | CIRC | 1 | DRLIN1 | CIR. BOTTOMS UP |
| | 07:30 - 09:00 | 1.50 | LOG | 4 | DRLIN1 | CUT & SLIP DRILLING & WAIT ON UNITS MECHANIC |
| | 09:00 - 13:30 | 4.50 | RIG | 2 | DRLIN1 | REPAIR WATER LEAK ON DRAWWORKS CHANGE OUT SNUFFING BOX |
| | 13:30 - 15:30 | 2.00 | DRL | 5 | DRLIN1 | DRILL OUT SHOE TRACK & CIR. BOTTOMS UP |
| | 15:30 - 16:00 | 0.50 | EQT | 2 | DRLIN1 | FIT EQU. TO 10.5 PPG HOLD FOR 15 - MINUTES (GOOD TEST) |
| | 16:00 - 17:30 | 1.50 | DRL | 1 | DRLIN1 | DRILL F/ 520' TO 570' |
| | 17:30 - 18:00 | 0.50 | CIRC | 1 | DRLIN1 | CIR. BOTTOMS UP |
| | 18:00 - 19:00 | 1.00 | TRP | 2 | DRLIN1 | TRIP OUT HOLE TO PICK UP HOLE OPENER & 8 3/4 BIT & MOTOR |
| | 19:00 - 21:30 | 2.50 | TRP | 1 | DRLIN1 | L/D 12 1/4 BIT & M/UP 8 3/4 BIT & MUD MOTOR W/ 12.25 HOLE OPENER& RIH |

Operations Summary Report

Legal Well Name: GH 6-20-8-21

Common Well Name: GH 6-20-8-21

Event Name: DRILLING

Contractor Name: PRO-PETRO

Rig Name: INGERSOL RAND

Start: 8/24/2008

Rig Release: 8/24/2008

Rig Number: 6

Spud Date: 8/22/2008

End:

Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|---|
| 9/9/2008 | 21:30 - 06:00 | 8.50 | DRL | 1 | DRLIN1 | DRILL F/ 570' TO 1280' 710' @ 84' P/HR WOB 10 TO 20 MUD WT 9 PPG VIS 29 |
| 9/10/2008 | 06:00 - 10:00 | 4.00 | DRL | 1 | DRLIN1 | DRILL F/ 1280' TO 1578' 298' @ 75' P/HR WOB 10/20 MUD WT 9.0 PPG VIS 32 |
| | 10:00 - 10:30 | 0.50 | CIRC | 1 | DRLIN1 | CIR. BOTTOMS UP WIRE LINE (.6 DEG.) @ 1528' |
| | 10:30 - 15:00 | 4.50 | DRL | 1 | DRLIN1 | DRILL F/ 1578' TO 1866' 288' @ 66' P/HR WOB 10/20 MUD WT 9.1 PPG VIS 30 |
| | 15:00 - 15:30 | 0.50 | RIG | 1 | DRLIN1 | RIG SERVICE |
| | 15:30 - 18:00 | 2.50 | DRL | 1 | DRLIN1 | DRILL F/ 1866' TO 2040' 174' @ 70' P/HR WOB 10/20 MUD WT 9.1 PPG VIS 32 |
| | 18:00 - 18:30 | 0.50 | OTH | | DRLIN1 | RE-TIGHTEN ROTATING HOUSING (LEAKING @ CONNECTION) |
| | 18:30 - 19:00 | 0.50 | DRL | 1 | DRLIN1 | DRILL F/ 2040' TO 2089' |
| | 19:00 - 20:00 | 1.00 | RIG | 2 | DRLIN1 | TOP DRIVE REPLACE PIN ON AN CYLINDER ARM |
| | 20:00 - 05:30 | 9.50 | DRL | 1 | DRLIN1 | DRILL F/ 2089' TO 2534' 445' @ 48' P/HR WOB 15/20 MUD WT 9.2 PPG VIS 31 |
| 9/11/2008 | 05:30 - 06:00 | 0.50 | CIRC | 1 | DRLIN1 | CIR. & WIRELINE SURVEY |
| | 06:00 - 11:30 | 5.50 | DRL | 1 | DRLIN1 | DRILL FROM 2,534 TO 2,724 (ROP 34.5' HR) WOB 20-24, ROT 75, MW 9.2, VIS 29, BG GAS 800 UNITS OFF BUSTER |
| | 11:30 - 12:00 | 0.50 | RIG | 1 | DRLIN1 | SERVICE RIG, TOP DRIVE, SWIVEL |
| | 12:00 - 18:00 | 6.00 | DRL | 1 | DRLIN1 | DRILL FROM 2,724 TO 2,925 (ROP 33.5' HR) WORK SAME PERRAMETERS,, HAD TAR COMING OVER SHAKER 2825' |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRLIN1 | DRILL FROM 2,925 TO 3,297 (ROP 31' HR) WORK SAME PERAMETERS--DRILLING THRU BIRDS NEST @ REPORT TIME |
| 9/12/2008 | 06:00 - 08:30 | 2.50 | DRL | 1 | DRLIN1 | DRILL FROM 3,297 TO 3,392 (ROP 38' HR) WOB 20-24, RPM 75, MW 9.0, VIS 29, BG GAS 1600 UNITS |
| | 08:30 - 09:30 | 1.00 | SUR | 1 | DRLIN1 | SURVEY @ 3323 1.3 DEG AZ 178.9 |
| | 09:30 - 12:30 | 3.00 | DRL | 1 | DRLIN1 | DRILL FROM 3,392 TO 3,483 (ROP 30.3) WORK SAME PERAMETERS, HAD ALOT OF SLIP STICK AND SLOWED TO 15' HR FOR 45 MIN |
| | 12:30 - 14:30 | 2.00 | TRP | 10 | DRLIN1 | TRIP OUT FOR BIT CHANGE |
| | 14:30 - 15:30 | 1.00 | TRP | 1 | DRLIN1 | LAY DOWN HOLE OPENER, MOTOR, BIT AND PICK UP THE SAME |
| | 15:30 - 17:00 | 1.50 | TRP | 10 | DRLIN1 | TRIP IN HOLE FILL @ BHA |
| | 17:00 - 17:30 | 0.50 | RIG | 1 | DRLIN1 | SERVICE RIG BLOCK, SWIVEL, DRAW-TOOL |
| | 17:30 - 04:30 | 11.00 | DRL | 1 | DRLIN1 | DRILL FROM 3,483 TO 3,854 (ROP 33.7' HR) WOB 17-24, RPM 75-80, MW 9.0+, VIS 32, BG GAS DRILLED SOME REAL AGRESSIVE SAND @ 3650 AND HAVE BEEN IN AND OUT OF SHARP SAND ALL NIGHT |
| | 04:30 - 05:00 | 0.50 | SUR | 1 | DRLIN1 | DROP SURVEY AND CHECK FLOW-WELL FLOWING 1/4" STREAM |
| | 05:00 - 06:00 | 1.00 | DRL | 1 | DRLIN1 | DRILL FROM 3,854 TO 3862 (ROP 8' HR) WORK DIFFERENT PERAMETERS BRING MW TO 9.4 IN ACTIVE |
| 9/13/2008 | 06:00 - 08:30 | 2.50 | TRP | 10 | DRLIN1 | TRIP OUT OF HOLE NO HOLE PROBLEMS |
| | 08:30 - 09:30 | 1.00 | TRP | 1 | DRLIN1 | LAY DOWN MOTOR, HOLE OPENER, X-OVER, PICK UP NEW 8 1/2" MOTOR AND BIT |
| | 09:30 - 12:00 | 2.50 | TRP | 10 | DRLIN1 | TRIP IN HOLE FILL @ BHA AND 3743 |
| | 12:00 - 13:30 | 1.50 | REAM | 1 | DRLIN1 | WASH AND REAM FROM 3,743 TO 3,862-- TOP OF 8 3/4" PILOT STARTED @ 3,823' |
| | 13:30 - 17:30 | 4.00 | DRL | 1 | DRLIN1 | DRILL FROM 3,862 TO 3,971(ROP 27.3' HR) WOB 12-14, DHRPM 127, MW 9.4, VIS 29, BG GAS 414 |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | DRLIN1 | SERVICE RIG TOP DRIVE, BLOCKS AND SWIVEL |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRLIN1 | DRILL FROM 3,971 TO 4,308 (ROP 28' HR) WOB 12-15, DHRPM 125, MW 9.3, VIS 30, BG GAS 120-- NO LOSSES |
| 9/14/2008 | 06:00 - 13:30 | 7.50 | DRL | 1 | DRLIN1 | DRILL FROM 4,308 TO 4,537 (ROP 30.5' HR) WOB 13-15, DHRPM 130, MW 9.3, VIS 31, BG GAS 76 |
| | 13:30 - 14:00 | 0.50 | RIG | 1 | DRLIN1 | SERVICE TOP DRIVE, BLOCKS, SWIVEL |

Operations Summary Report

Legal Well Name: GH 6-20-8-21

Common Well Name: GH 6-20-8-21

Event Name: DRILLING

Contractor Name: PRO-PETRO

Rig Name: INGERSOL RAND

Start: 8/24/2008

Rig Release: 8/24/2008

Rig Number: 6

Spud Date: 8/22/2008

End:

Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|---|
| 9/14/2008 | 14:00 - 20:00 | 6.00 | DRL | 1 | DRLIN1 | DRILL FROM 4,537 TO 4,728 (ROP 31.8' HR) WORK SAME PERAMETERS, MW 9.3, VIS 31, BG GAS 25 |
| | 20:00 - 21:00 | 1.00 | SUR | 1 | DRLIN1 | CIRCULATE AND SURVEY @ 4655.9 DEG, 149.0 AZ |
| | 21:00 - 06:00 | 9.00 | DRL | 1 | DRLIN1 | DRILL FROM 4,728 TO 4,963 (ROP 26.1' HR) WOB 13-20, DHRPM 120-145, MW 9.3, VIS 32, HAD ALOT OF SLIP STICK @ 4805-4823 & 4871-4905 |
| 9/15/2008 | 06:00 - 12:30 | 6.50 | DRL | 1 | DRLIN1 | DRILL FROM 4,963 TO 5,110 (ROP 22.6' HR)WOB 13-20, DHRPM 125-135, MW 9.3, VIS 32, BG GAS 120, ROP SLOWED TO 12' HR FOR 1 1/2 HR.S |
| | 12:30 - 13:00 | 0.50 | RIG | 1 | DRLIN1 | RIG SERVICE, GREASE CROWN, BLOCKS, SWIVEL, DRAWWORKS |
| | 13:00 - 14:30 | 1.50 | DRL | 1 | DRLIN1 | DRILL FROM 5,110 TO 5,122 (ROP 8' HR) WORK ALL DIFFERANT PERAMETERS COULDN'T GET TO DRILL |
| | 14:30 - 15:00 | 0.50 | SUR | 1 | DRLIN1 | CHECKED FLOW--NO FLOW AND DROP SURVEY @ 5,070 |
| | 15:00 - 16:30 | 1.50 | TRP | 10 | DRLIN1 | TRIP OUT OF HOLE |
| | 16:30 - 17:00 | 0.50 | TRP | 1 | DRLIN1 | LAY DOWN MOTOR AND BIT AND PICK UP SAME |
| | 17:00 - 19:00 | 2.00 | TRP | 10 | DRLIN1 | TRIP IN HOLE FILL @ BHA AND 5,011 |
| | 19:00 - 19:30 | 0.50 | REAM | 1 | DRLIN1 | WASH FROM 5,011 TO 5,122 (NO HOLE FILL) |
| | 19:30 - 06:00 | 10.50 | DRL | 1 | DRLIN1 | DRILL FROM 5,122 TO 5310 (ROP 17.9' HR) WOB 12-18, DHRPM 135-155, MW 9.3, VIS 32, HAVE HAD ALOT OF SLIP STICK WITH NEW BIT AND MOTOR--HAVE TRIED DIFFERENT PERAMETERS TO GET SLIP STICK OUT-NO LUCK |
| 9/16/2008 | 06:00 - 11:00 | 5.00 | DRL | 1 | DRLIN1 | DRILL FROM 5,310 TO 5,450 (ROP 28' HR) WOB 12-16, DHRPM 125-135, MW 9.3, VIS 32, HAD ALOT OF SLIP STICK |
| | 11:00 - 12:00 | 1.00 | CIRC | 7 | DRLIN1 | CIRCULATE UP FORMATION SAMPLE, FIRM SHALE- GEO-DON WEAVER |
| | 12:00 - 13:00 | 1.00 | TRP | 14 | DRLIN1 | SHORT TRIP FOR 9 5/8 CASING RUN, NO HOLE FILL |
| | 13:00 - 14:00 | 1.00 | CIRC | 1 | DRLIN1 | CIRCULATE BOTTOMS UP TO RUN CASING-SHAKER WERE CLEAN, |
| | 14:00 - 14:30 | 0.50 | SUR | 1 | DRLIN1 | FLOW CHECK AND DROP SURVEY @ 5378.8 DEG, 182.5 AZ |
| | 14:30 - 16:30 | 2.00 | TRP | 2 | DRLIN1 | TRIP OUT OF HOLE TO RUN CASING (SLM 5450.57) |
| | 16:30 - 17:30 | 1.00 | TRP | 1 | DRLIN1 | LAY DOWN 8" COLLARS AND MOTOR |
| | 17:30 - 18:00 | 0.50 | OTH | | DRLIN1 | PULL WEAR BUSHING |
| | 18:00 - 19:30 | 1.50 | CSG | 1 | CSGIN1 | HELD SAFETY MEETING AND RIG UP CASING CREW |
| | 19:30 - 00:30 | 5.00 | CSG | 2 | CSGIN1 | RUN 9 5/8 123 JOINTS, 47#, HCP110, CASING AS FOLLOWS SHOE @ 5439, FLOAT COLLAR @ 5354, RAN 25 CENTRALIZERS EVERY 120'+/- LANDED HANGER |
| | 00:30 - 01:30 | 1.00 | CSG | 1 | CSGIN1 | R/D CASING CREW WHILE CIRCULATING |
| | 01:30 - 02:30 | 1.00 | CIRC | 1 | CSGIN1 | CIRCULATE HOLE THRU FLUTED HANGER |
| | 02:30 - 05:30 | 3.00 | OTH | | CSGIN1 | PACK OFF WELL HEAD AND SET CEMENT ISOLATION TOOL TO CEMENT THRU "A" SECTION |
| | 05:30 - 06:00 | 0.50 | CIRC | 1 | CSGIN1 | CIRCULATE CASING THRU "A" SECTION TO CEMENT |
| | 06:00 - 09:00 | 3.00 | CIRC | 1 | CSGIN1 | CIRCULATE CASING THRU A SECTION FOR CEMENT JOB,(FOAMING PUMPS NOT WORKING ON FOAMING TRAILER, FOUND @ 07:15 |
| 9/17/2008 | 09:00 - 14:30 | 5.50 | CMT | 2 | CSGIN1 | HELD SAFETY MEETING & RIG UP AND CEMENT 9 5/8 CASING PUMPED 50 BBL.S OF SPACER TRAIN, 30 BBL.S OF SCAVENGER CEMENT 7 PPG, 165 BBL.S FIRST LEAD 8.5 PPG, 210 BBL.S OF 2ND LEAD 11 PPG, 62 BBL.S OF TAIL CEMENT 14.3 PPG, DIPLACED WITH 392 BBL.S OF 9.3 MUD, LOST RETURNS 200 BBL.S INTO DIS PLACEMENT, PLUG BUMPED AND FLOATS HELD, PUMPED 55 BBL.S OF CAP 14.6 PPG |
| | 14:30 - 15:30 | 1.00 | CMT | 1 | CSGIN1 | RIG DOWN CEMENTERS |
| | 15:30 - 16:00 | 0.50 | OTH | | CSGIN1 | PULL CEMENT ISOLATION TOOL |

Operations Summary Report

Legal Well Name: GH 6-20-8-21

Common Well Name: GH 6-20-8-21

Event Name: DRILLING

Contractor Name: PRO-PETRO

Rig Name: INGERSOL RAND

Start: 8/24/2008

Rig Release: 8/24/2008

Rig Number: 6

Spud Date: 8/22/2008

End:

Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|---|
| 9/17/2008 | 16:00 - 20:30 | 4.50 | BOP | 2 | CSGIN1 | RIG UP TESTERS AND TEST BOPE TO 10,000 PSI |
| | 20:30 - 21:00 | 0.50 | TRP | 1 | CSGIN1 | PICK UP MOTOR AND MONEL |
| | 21:00 - 23:30 | 2.50 | TRP | 2 | CSGIN1 | TRIP IN HOLE FILL @ BHA AND @ 5,329 |
| | 23:30 - 00:30 | 1.00 | DRL | 4 | CSGIN1 | DRILL FLOAT COLLAR AND SHOE |
| | 00:30 - 01:30 | 1.00 | DRL | 1 | CSGIN1 | DRILL FROM 5450 TO 5460 10' OF NEW HOLE FOR FIT TEST |
| | 01:30 - 02:00 | 0.50 | EQT | 2 | CSGIN1 | PERFORM FIT TEST MW 9.3PPG + 1205 PSI = 13.54 EQUIV. MW |
| | 02:00 - 06:00 | 4.00 | DRL | 1 | CSGIN1 | DRILL FROM 5,460 TO 5,521 (ROP 15.3' HR) WOB 5-20, DHRPM 140-160, MW 9.3 VIS 32, BG GAS |
| 9/18/2008 | 06:00 - 10:30 | 4.50 | DRL | 1 | DRLIN2 | DRILL 8 1/2" HOLE FROM 5529' TO 5614' (18.9' HR) |
| | 10:30 - 11:00 | 0.50 | RIG | 1 | DRLIN2 | RIG SERVICE |
| | 11:00 - 21:30 | 10.50 | DRL | 1 | DRLIN2 | DRILL FROM 5614' TO 5741' (ROP 12' HR) |
| | 21:30 - 22:00 | 0.50 | SUR | 1 | DRLIN2 | DROP SURVEY |
| | 22:00 - 00:30 | 2.50 | TRP | 10 | DRLIN2 | PUMP TRIP SLUG TRIP OUT OF HOLE |
| | 00:30 - 01:00 | 0.50 | TRP | 1 | DRLIN2 | CHANGE OUT BIT |
| | 01:00 - 03:30 | 2.50 | TRP | 10 | DRLIN2 | TRIP IN HOLE WITH NEW BIT- FILL @ BHA AND 5,615 |
| | 03:30 - 04:00 | 0.50 | REAM | 1 | DRLIN2 | WASH FROM 5,615 TO 5,741 (NO FILL) |
| | 04:00 - 06:00 | 2.00 | DRL | 1 | DRLIN2 | DRILL FROM 5,741 TO 5,800 (ROP 29.5' HR) WOB 5-8, DHRPM 160-175, MW 9.3, VIS 36, BG GAS 31, |
| 9/19/2008 | 06:00 - 15:30 | 9.50 | DRL | 1 | DRLIN2 | DRILL FROM 5,800 TO 5,908 (ROP 11.4' HR) WOB 5-15, DHRPM 120-160, BG GAS 30 UNITS, WORK DIFFERENT PARAMETERS TO GET TO DRILL- NO LUCK--DROPPED TO 5' HR FOR ONE HR |
| | 15:30 - 16:00 | 0.50 | RIG | 1 | DRLIN2 | SERVICE RIG-- TOP DRIVE, BLOCKS, SWIVEL |
| | 16:00 - 19:00 | 3.00 | TRP | 10 | DRLIN2 | TRIP OUT OF HOLE TO CHANGE BIT AND CBL LOGS |
| | 19:00 - 19:30 | 0.50 | LOG | 2 | DRLIN2 | HELD SAFETY MEETING AND RIG UP CUTTERS WIRE LINE |
| | 19:30 - 22:00 | 2.50 | LOG | 2 | DRLIN2 | LOG CASING TOP OF CEMENT @ 1910 |
| | 22:00 - 22:30 | 0.50 | LOG | 2 | DRLIN2 | RIG DOWN LOGERS |
| | 22:30 - 23:00 | 0.50 | TRP | 1 | DRLIN2 | PICK UP BIT SUB, TORQUE BUSTER, BIT |
| | 23:00 - 01:30 | 2.50 | TRP | 10 | DRLIN2 | TRIP IN HOLE FILL @ BHA AND 5,776 |
| | 01:30 - 02:00 | 0.50 | REAM | 1 | DRLIN2 | WASH FROM 5,776 TO 5,908-HOLE IS GOOD SHAPE 2' FILL |
| | 02:00 - 06:00 | 4.00 | DRL | 1 | DRLIN2 | DRILL FROM 5,908 TO 5,988 (ROP 20' HR) WOB 7.5, DHRPM 75, MW 9.4, VIS 45, BG GAS 65 |
| | | | | | | DRILL FROM 5,988 TO 6,063 (ROP 18.8' HR) WOB 5-7, DHRPM 65, MW 9.4, VIS 32, BG GAS 31, HOLE SEEPING 4 BBL.S HR |
| | | | | | | SERVICE RIG TOP DRIVE, BLOCKS, SWIVEL, DRAW TOOL, CROWN |
| 9/20/2008 | 06:00 - 10:00 | 4.00 | DRL | 1 | DRLIN2 | DRILL FROM 6,063 TO 6,240 (ROP 25.3' HR) WOB 5-8, DHRPM 85, MW 9.5, VIS 37, BG GAS 32, HOLE SEEPING 4 BBL.S HR |
| | 10:00 - 11:00 | 1.00 | RIG | 1 | DRLIN2 | DRILL FROM 6,240 TO 6,445 (ROP 24.1' HR) HOLE TOOK A 205 BBL DRINK @ 6239 LOST ALL RETURNS AND REGAIN AFTER PUMPING 10% LCM SWEEP 200 BBL.S HOLE IS SEEPING 15 BBL.S HR |
| | 11:00 - 18:00 | 7.00 | DRL | 1 | DRLIN2 | SURVEY @ 6403 1.5 DEG 148.9 AZ |
| | 18:00 - 02:30 | 8.50 | DRL | 1 | DRLIN2 | DRILL FROM 6,445 TO 6,518 (ROP 24.3' HR) WOB 7-9, DHRPM 85, MW 9.5, VIS 39, BG GAS 15, HOLE SEEPING 8 BBL.S HR |
| | 02:30 - 03:00 | 0.50 | SUR | 1 | DRLIN2 | DRILL FROM 6,518 TO 6,635 (ROP 21.3' HR) WOB 7-10 DHRPM 75, MW 9.5, VIS 38, BG GAS 16 HOLE SEEPING 6 BBL.S HR |
| | 03:00 - 06:00 | 3.00 | DRL | 1 | DRLIN2 | SERVICE RIG BLOCKS, SWIVEL, DRAWWORKS, TOP DRIVE |
| 9/21/2008 | 06:00 - 11:30 | 5.50 | DRL | 1 | DRLIN2 | DRILL FROM 6,635 TO 6,745 (ROP 20.0' HR) WOB 7-13 DHRPM 75-90, MW 9.5, VIS 40, BG GAS 38 HOLE SEEPING 4 BBL.S HR |
| | 11:30 - 12:30 | 1.00 | RIG | 1 | DRLIN2 | PUMPING 10 BBL. 10% LCM SWEEPS HRLY |
| | 12:30 - 18:00 | 5.50 | DRL | 1 | DRLIN2 | DRILL FROM 6,745 TO 7,000 (ROP 21.3' HR) WORKING THE SAME PARAMETERS |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRLIN2 | DRILL FROM 7,000 TO 7,110 (ROP 18.3' HR) WOB 13-15, DHRPM 90, MW 9.5, VIS 39, HOLE STARTED SEEPING 14 BBL.S HR @ 7,090 |
| 9/22/2008 | 06:00 - 12:00 | 6.00 | DRL | 1 | DRLIN2 | |

Operations Summary Report

Legal Well Name: GH 6-20-8-21

Common Well Name: GH 6-20-8-21

Event Name: DRILLING

Contractor Name: PRO-PETRO

Rig Name: INGERSOL RAND

Start: 8/24/2008

Rig Release: 8/24/2008

Rig Number: 6

Spud Date: 8/22/2008

End:

Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|--|
| 9/22/2008 | 12:00 - 12:30 | 0.50 | RIG | 1 | DRLIN2 | SERVICE RIG |
| | 12:30 - 14:00 | 1.50 | DRL | 1 | DRLIN2 | DRILL FROM 7,110 TO 7,135 (ROP 16.7' HR) WOB 15, DHRPM 90, MW 9.5, VIS 38 LOST DRILL PIPE SCREEN ON CONNECTION-SCREEN WENT DOWN DRILL PIPE |
| | 14:00 - 16:30 | 2.50 | TRP | 10 | DRLIN2 | TRIP OUT FOR BIT, 16 BBL.S OVER CALC. FILL |
| | 16:30 - 17:30 | 1.00 | TRP | 1 | DRLIN2 | LAY DOWN TORQUE BUSTER, BIT SUB, 2-DC'S, PICK UP NEW MOTOR AND BIT |
| | 17:30 - 20:30 | 3.00 | TRP | 10 | DRLIN2 | TRIP IN HOLE RABBETING PIPE LOOKING FOR DRILL PIPE SCREEN- FOUND IN SECOND HWDP FROM TOP- FILL @ BHA AND SHOE |
| | 20:30 - 21:30 | 1.00 | RIG | 6 | DRLIN2 | CUT AND SLIP 10 WRAPS OF DRILLING LINE |
| | 21:30 - 22:30 | 1.00 | TRP | 10 | DRLIN2 | TRIP IN OPEN HOLE |
| | 22:30 - 23:00 | 0.50 | REAM | 1 | DRLIN2 | WASH FROM 6952 TO 7135 (NO HOLE FILL) |
| | 23:00 - 06:00 | 7.00 | DRL | 1 | DRLIN2 | DRILL FROM 7,135 TO 7,317 (ROP 26' HR) WOB 7-8, DHRPM 145, MW 9.6, VIS 41, BGGAS 44 |
| | | | | | | |
| 9/23/2008 | 06:00 - 11:00 | 5.00 | DRL | 1 | DRLIN2 | DRILL FROM 7,317 TO 7,430 (ROP 22.6' HR) WOB 7-9, DHRPM 145, MW 9.5, VIS 39, BG GAS 25 |
| | 11:00 - 12:00 | 1.00 | SUR | 1 | DRLIN2 | CIRCULATE AND SURVEY @ 7,370 1.6 DEG 159.7 AZ |
| | 12:00 - 16:00 | 4.00 | DRL | 1 | DRLIN2 | DRILL FROM 7,430 TO 7,525 (ROP 23.8' HR) WORK SAME PERRAMETERS |
| | 16:00 - 16:30 | 0.50 | RIG | 1 | DRLIN2 | SERVICE RIG AND TOP DRIVE |
| | 16:30 - 06:00 | 13.50 | DRL | 1 | DRLIN2 | DRILL FROM 7,525 TO 7,865 (ROP 25.2' HR) WOB 8-12, DHRPM 145, MW 9.5, VIS 38, BGGAS 27 ERATIC DRILLING @ 7538 BIT BOUNCE AND TORQUE SMOOTH 7,569 |
| 9/24/2008 | 06:00 - 10:30 | 4.50 | DRL | 1 | DRLIN2 | DRILL FROM 7,865 TO 8,003 (ROP 30.7' HR) WOB 14, DHRPM 145, MW 9.5, VIS 38, BG GAS 31 |
| | 10:30 - 11:30 | 1.00 | RIG | 1 | DRLIN2 | SERVICE RIG BLOCKS, DRAWWORKS, SWIVEL, TOP DRIVE |
| | 11:30 - 18:00 | 6.50 | DRL | 1 | DRLIN2 | DRILL FROM 8,003 TO 8,190 (ROP 26.7' HR) WOB 14, DHRPM 145, MW 9.5, 39, BG GAS 23, NO LOSSES |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRLIN2 | DRILL FROM 8,190 TO 8,400 (ROP 17.5' HR) WOB 14-18, DHRPM 145, MW 9.5, NO LOSSES |
| 9/25/2008 | 06:00 - 09:30 | 3.50 | DRL | 1 | DRLIN2 | DRILL F/ 8400' TO 8479' (79' @ 23' P/HR) WOB 18/22 MUD WT 9.5 PPG VIS 36 W/ NO LOSSES |
| | 09:30 - 10:30 | 1.00 | CIRC | 1 | DRLIN2 | CIR BOTTOMS UP & WIRE LINE SURVEY 1* DEG. 152.3 AZI |
| | 10:30 - 15:00 | 4.50 | DRL | 1 | DRLIN2 | DRILL F/ 8479' TO 8573' (94' @ 21' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 39 W/ NO LOSSES |
| | 15:00 - 15:30 | 0.50 | RIG | 1 | DRLIN2 | RIG SERVICE |
| | 15:30 - 18:00 | 2.50 | DRL | 1 | DRLIN2 | DRILL F/ 8573' TO 8628' (55' @ 22' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 39 W/ NO LOSSES |
| | 18:00 - 01:30 | 7.50 | DRL | 1 | DRLIN2 | DRILL F/ 8628' TO 8763' (135' @ 19' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 38 |
| | 01:30 - 02:00 | 0.50 | CIRC | 1 | DRLIN2 | CIR & CHANGE OUT LEAKING ROTATING RUBBER |
| | 02:00 - 06:00 | 4.00 | DRL | 1 | DRLIN2 | DRILL F/ 8763' TO 8859' (96' @ 24' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 40 |
| 9/26/2008 | 06:00 - 10:00 | 4.00 | DRL | 1 | DRLIN2 | DRILL F/ 8859' TO 8954' (95' @ 24' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 41 W/ NO LOSSES |
| | 10:00 - 10:30 | 0.50 | RIG | 1 | DRLIN2 | RIG SERVICE |
| | 10:30 - 14:30 | 4.00 | DRL | 1 | DRLIN2 | DRILL F/ 8954' TO 9046' (92' @ 23' P/HR) WOB 20/22 MUD WT 9.6 PPG VIS 40 |
| | 14:30 - 15:30 | 1.00 | CIRC | 1 | DRLIN2 | CIR. BOTTOMS UP & FLOW CHECK OK DROP SURVEY |
| | 15:30 - 18:00 | 2.50 | TRP | 2 | DRLIN2 | TRIP OUT OF HOLE |
| | 18:00 - 22:00 | 4.00 | ISP | 1 | DRLIN2 | INSPECT BHA & CHANGE OUT MUD MOTOR & BIT |
| | 22:00 - 04:30 | 6.50 | TRP | 2 | DRLIN2 | TRIP IN HOLE TO 8854' |
| | | | | | | |

Operations Summary Report

Legal Well Name: GH 6-20-8-21

Common Well Name: GH 6-20-8-21

Event Name: DRILLING

Contractor Name: PRO-PETRO

Rig Name: INGERSOL RAND

Start: 8/24/2008

Rig Release: 8/24/2008

Rig Number: 6

Spud Date: 8/22/2008

End:

Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|---|
| 9/26/2008 | 04:30 - 05:00 | 0.50 | REAM | 1 | DRLIN2 | SAFETY WASH & REAM F/ 8854' TO BOTTOM @ 9046 W/ NO PROBLEMS OR FILL |
| | 05:00 - 06:00 | 1.00 | DRL | 1 | DRLIN2 | DRILL F/ 9046' TO 9066' (20' @ 20 P/HR) WOB 15/18 MUD WT 9.6 PPG VIS 41 |
| 9/27/2008 | 06:00 - 11:00 | 5.00 | DRL | 1 | DRLIN2 | DRILL F/ 9066' TO 9157' (91' @ 18.2 P/HR) WOB 18/25 MUD WT 9.8 PPG VIS 43 |
| | 11:00 - 11:30 | 0.50 | CIRC | 1 | DRLIN2 | FLOW CHECK - OK & PUMP PILL |
| | 11:30 - 15:00 | 3.50 | TRP | 2 | DRLIN2 | TOOH CHANGE MUD MOTOR & BIT |
| | 15:00 - 19:30 | 4.50 | TRP | 2 | DRLIN2 | TRIP IN HOLE |
| | 19:30 - 20:00 | 0.50 | REAM | 1 | DRLIN2 | SAFETY WASH & REAM F/ 8967' TO BOTTOM @ 9157' W/ NO FILL |
| | 20:00 - 06:00 | 10.00 | DRL | 1 | DRLIN2 | DRILL F/ 9157' TO 9415' (258' @ 26' P/HR) WOB 15/20 MUD WT 9.9 VIS 42 W/ NO LOSSES |
| 9/28/2008 | 06:00 - 11:30 | 5.50 | DRL | 1 | DRLIN2 | DRILL F/ 9415' TO 9528' (113' @ 21' P/HR) WOB 18/22 MUD WT 9.9 PPG VIS 41 |
| | 11:30 - 12:00 | 0.50 | RIG | 1 | DRLIN2 | RIG SERVICE |
| | 12:00 - 06:00 | 18.00 | DRL | 1 | DRLIN2 | DRILL F/ 9528' TO 9967' (439' @ 25' P/HR) WOB 18/22 MUD WT 10 PPG VIS 42 |
| 9/29/2008 | 06:00 - 09:00 | 3.00 | DRL | 1 | DRLIN2 | DRILL F/ 9967' TO 10057' (90' @ 30' P/HR) WOB 18/22 MUD WT 10.2 PPG VIS 41 |
| | 09:00 - 11:00 | 2.00 | CIRC | 2 | DRLIN2 | LOST PARTIAL RETURNS PUMP 50 BBLS 20% LCM PILL RE-GAIN RETURNS LOST TOTAL OF 240 BBLS |
| | 11:00 - 12:30 | 1.50 | DRL | 1 | DRLIN2 | DRILL F/ 10057' TO 10102' (45' @ 30' P/HR) WOB 18/22 MUD WT 10.2 PPG VIS 43 |
| | 12:30 - 13:00 | 0.50 | RIG | 1 | DRLIN2 | RIG SERVICE |
| | 13:00 - 21:00 | 8.00 | DRL | 1 | DRLIN2 | DRILL F/ 10102' TO 10311' (209' @ 26' P/HR) WOB 18/22 MUD WT 10.6 PPG VIS 42 (# 1 SCR DOWN UNABLE TO DRILL WITH ONE MUD PUMP) ELECTRICIAN SHOULD BE ON LOCATION AROUND 0800 HRS) |
| | 21:00 - 01:00 | 4.00 | RIG | 2 | DRLIN2 | CIR. & CONDITION MUD PUMP ECD PILL |
| 9/30/2008 | 01:00 - 03:30 | 2.50 | RIG | 2 | DRLIN2 | TRIP TO CASING SHOE |
| | 03:30 - 06:00 | 2.50 | RIG | 2 | DRLIN2 | WAIT ON ELECTRICIAN |
| | 06:00 - 15:30 | 9.50 | RIG | 2 | DRLIN2 | REPAIR # 1 SCR FOUND DAMAGED WIRE GOING TO RE-TRACTING MOTOR CAUSING GROUND FAULT REPAIRED RIH (STAGE CIR. OUT ECD PILL) |
| | 15:30 - 16:00 | 0.50 | RIG | 1 | DRLIN2 | RIG SERVICE |
| | 16:00 - 06:00 | 14.00 | DRL | 1 | DRLIN2 | DRILL F/ 10311' TO 10600' (289' @ 21' P/HR) WOB 20/25 MUD WT 11 PPG VIS 42 |
| 10/1/2008 | 06:00 - 08:00 | 2.00 | DRL | 1 | DRLIN2 | DRILL F/ 10600 TO 10614' (14' @ 7'P/HR) WOB 18/26 MUD WT 11 PPG VIS 42 |
| | 08:00 - 09:30 | 1.50 | CIRC | 1 | DRLIN2 | CIR. BOTTOMS UP FLOW CHECK DROP SURVEY & PUMP ECD PILL |
| | 09:30 - 13:00 | 3.50 | TRP | 2 | DRLIN2 | TRIP OUT OF HOLE |
| | 13:00 - 13:30 | 0.50 | TRP | 1 | DRLIN2 | CHANGE OUT MUD MOTOR & BIT |
| | 13:30 - 18:30 | 5.00 | TRP | 2 | DRLIN2 | TRIP IN HOLE TO 8255' |
| | 18:30 - 19:30 | 1.00 | REAM | 1 | DRLIN2 | TIGHT HOLE @ 10390' WASH & REAM THROUGH TIGHT SPOT & REAM TO BOTTOM @ 10614' |
| 10/2/2008 | 19:30 - 06:00 | 10.50 | DRL | 1 | DRLIN2 | DRILL F/ 10614' TO 10930' (316' @ 30' P/HR) WOB 18/24 MUD WT 11.1 PPG VIS 43 |
| | 06:00 - 11:30 | 5.50 | DRL | 1 | DRLIN2 | DRILL F/ 10930 TO 10982 (52' @ 9.6' P/HR) WOB 20/25 MUD WT 11.3 VIS 42 |
| | 11:30 - 12:30 | 1.00 | CIRC | 1 | DRLIN2 | CIR. BOTTOMS UP & PUMP ECD PILL |
| | 12:30 - 18:00 | 5.50 | TRP | 2 | DRLIN2 | TOOH |
| | 18:00 - 19:30 | 1.50 | TRP | 1 | DRLIN2 | LAY DOWN MUD MOTOR & PICK UP TORQUE BUSTER & NEW BIT |
| | | | | | | |

Operations Summary Report

Legal Well Name: GH 6-20-8-21

Common Well Name: GH 6-20-8-21

Event Name: DRILLING

Contractor Name: PRO-PETRO

Rig Name: INGERSOL RAND

Start: 8/24/2008

Rig Release: 8/24/2008

Rig Number: 6

Spud Date: 8/22/2008

End:

Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|---|
| 10/2/2008 | 19:30 - 22:30 | 3.00 | TRP | 2 | DRLIN2 | TIH TO SHOE |
| | 22:30 - 00:00 | 1.50 | RIG | 6 | DRLIN2 | CUT & SLIP DRILL LINE |
| | 00:00 - 03:00 | 3.00 | RIG | 2 | DRLIN2 | REPAIR LEAK ON DRAWWORKS (REPLACE COOLANT HOSE) |
| | 03:00 - 05:00 | 2.00 | TRP | 2 | DRLIN2 | TRIP IN HOLE TO 10120 |
| | 05:00 - 06:00 | 1.00 | CIRC | 1 | DRLIN2 | CIR OUT ECD PILL |

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Operations Summary Report

Legal Well Name: GH 6-20-8-21
Common Well Name: GH 6-20-8-21
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 8/24/2008
Rig Release:
Rig Number: 328
Spud Date: 8/22/2008
End:
Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|---|
| 11/2/2008 | 16:30 - 06:00 | 13.50 | DRL | 1 | DRLPRO | BBLs IN FRACTURE 16867' |
| 11/3/2008 | 06:00 - 07:00 | 1.00 | CIRC | 1 | DRLPRO | CIRCULATE, PUMP DRY PIPE PILL, CHECK FOR FLOW |
| | 07:00 - 13:00 | 6.00 | TRP | 10 | DRLPRO | TRIP OUT BIT # 19 |
| | 13:00 - 13:30 | 0.50 | TRP | 1 | DRLPRO | LAY DOWN TORQUE BUSTER AND CHANGE OUT BIT |
| | 13:30 - 18:30 | 5.00 | TRP | 10 | DRLPRO | TRIP TO SHOE |
| | 18:30 - 19:30 | 1.00 | RIG | 6 | DRLPRO | SLIP AND CUT DRILLING LINE |
| | 19:30 - 20:00 | 0.50 | RIG | 1 | DRLPRO | RIG SERVICE |
| | 20:00 - 22:00 | 2.00 | TRP | 10 | DRLPRO | TRIP IN BIT #20 |
| | 22:00 - 23:00 | 1.00 | REAM | 1 | DRLPRO | WASH AND REAM LAST STD TO BOTTOM |
| | 23:00 - 00:30 | 1.50 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP CHANGE OUT ROTATING HEAD RUBBER |
| | 00:30 - 06:00 | 5.50 | DRL | 1 | DRLPRO | DRILL F/16868' TO 16920' WOB 16, ROT 55, GPM 230 |
| 11/4/2008 | 06:00 - 21:00 | 15.00 | DRL | 1 | DRLPRO | DRILL F/ 16,920 T/ 17,016. 96 FT, 6.4 FPH DRILLED INTO FRACTURE @ 17,013, STALLED WHEN ATTEMPTING T/ RESTART. DRILLED T/ 17,016. |
| | 21:00 - 22:00 | 1.00 | SUR | 1 | DRLPRO | DROP SURVEY. ATTEMPT T/ PUMP SLUG. STRING PRESSURED UP, NO CIRCULATION. CHECK SURFACE EQUIPMENT, DP SCREEN, ETC. N/G |
| | 22:00 - 02:00 | 4.00 | FISH | 4 | DRLPRO | WAIT ON WIRELINE TRUCK |
| 11/5/2008 | 02:00 - 06:00 | 4.00 | FISH | 4 | DRLPRO | SAFETY MEETING, R/U D.C.T. WIRELINE & RIH W/ SURVEY RETRIEVING TOOL |
| | 06:00 - 09:30 | 3.50 | FISH | 4 | DRLPRO | RIH W/ DCT WIRELINE. ATTEMPT TO JAR MULTI-SHOT SURVEY TOOL FREE. NO PROGRESS. POH. |
| | 09:30 - 16:30 | 7.00 | FISH | 4 | DRLPRO | MK UP 5 SHOT 1/4" PERF GUN. RIH. PERF GUN DID NOT FIRE. MK UP 9 SHOT 1/8" PERF GUN. RIH. PERFORATE 1ST DRILL COLLAR ABOVE MONEL. |
| | 16:30 - 17:00 | 0.50 | FISH | 4 | DRLPRO | R/D W/L TRUCK. |
| | 17:00 - 17:30 | 0.50 | REAM | 2 | DRLPRO | WASH 130 FT T/ BTM. |
| | 17:30 - 19:30 | 2.00 | CIRC | 1 | DRLPRO | CIRCULATE / CONDITION @ 4.8 BPM. 6,590 UNITS, 35 FT FLARE. |
| | 19:30 - 02:30 | 7.00 | TRP | 10 | DRLPRO | PUMP SLUG. TOH F/ NEW BIT. |
| | 02:30 - 06:00 | 3.50 | TRP | 1 | DRLPRO | L/D PERFORATED DC, WIRELINE TOOLS & REMOVE SURVEY TOOL F/ BIT SUB |
| | 06:00 - 14:00 | 8.00 | TRP | 10 | DRLPRO | TRIP IN HOLE FILL EVERY 5 ROWS, BREAK CIRCULATION FOR 5-10 MINUTES |
| | 14:00 - 15:00 | 1.00 | CIRC | 1 | DRLPRO | CIRCULATE OUT TRIP SLUG |
| 11/6/2008 | 15:00 - 16:00 | 1.00 | TRP | 10 | DRLPRO | TRIP IN HOLE TO 16,855 TO |
| | 16:00 - 17:00 | 1.00 | OTH | | DRLPRO | INSTALL ROTATING HEAD AND CHANGE OUT ROTATING HEAD |
| | 17:00 - 18:00 | 1.00 | REAM | 1 | DRLPRO | WASH FROM 16,855 TO 17,016 (NO HOLE FILL) |
| | 18:00 - 01:30 | 7.50 | DRL | 1 | DRLPRO | DRILL 17,016 TO 17,070 (ROP 7.2' HR) WOB 14, DHRPM 52, MW 14.9, VIS 49, BG GAS 380 |
| | 01:30 - 03:00 | 1.50 | CIRC | 5 | DRLPRO | CIRCULATE UP SAMPLE |
| | 03:00 - 04:00 | 1.00 | TRP | 14 | DRLPRO | SHORT TRIP 10 STANDS |
| | 04:00 - 06:00 | 2.00 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP AND SPOT ECD SLUG |
| | 06:00 - 06:30 | 0.50 | CIRC | 1 | DRLPRO | SPOT ECD SLUG 150 BBL.S OF 15.8 PPG IN OPEN HOLE |
| | 06:30 - 14:00 | 7.50 | TRP | 2 | DRLPRO | TRIP OUT OF TO LOG HOLE |
| | 14:00 - 06:00 | 16.00 | LOG | 1 | DRLPRO | RUN OPEN HOLE LOGGS, PLAT FORM EXPRESS, OBMI LOG, IN CASING SONIC, NEUTRON LOG IN CASING FROM SHOE TO 5,000' AND GAMMA RAY FROM SHOE TO SURFACE |
| 11/7/2008 | 06:00 - 09:30 | 3.50 | LOG | 2 | DRLPRO | LOG SONIC/ |
| | 09:30 - 16:00 | 6.50 | TRP | 15 | DRLPRO | TRIP IN HOLE TO SHOE |
| | 16:00 - 17:00 | 1.00 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP @ SHOE |
| | 17:00 - 19:30 | 2.50 | TRP | 15 | DRLPRO | TRIP IN HOLE TO 16,986 |
| | 19:30 - 20:00 | 0.50 | REAM | 1 | DRLPRO | WASH FROM 16,986 TO 17,070 (NO FILL) |
| 11/8/2008 | 06:00 - 09:30 | 3.50 | LOG | 2 | DRLPRO | LOG SONIC/ |
| | 09:30 - 16:00 | 6.50 | TRP | 15 | DRLPRO | TRIP IN HOLE TO SHOE |
| | 16:00 - 17:00 | 1.00 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP @ SHOE |
| | 17:00 - 19:30 | 2.50 | TRP | 15 | DRLPRO | TRIP IN HOLE TO 16,986 |
| | 19:30 - 20:00 | 0.50 | REAM | 1 | DRLPRO | WASH FROM 16,986 TO 17,070 (NO FILL) |

Operations Summary Report

Legal Well Name: GH 6-20-8-21
 Common Well Name: GH 6-20-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 8/24/2008
 Rig Release:
 Rig Number: 328
 Spud Date: 8/22/2008
 End:
 Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|------------|---------------|-------|------|----------|--------|---|
| 11/8/2008 | 20:00 - 23:30 | 3.50 | CIRC | 1 | DRLPRO | CIRCULATE OUT ECD SLUG AND CONDITION HOLE TO RUN CASING (LOST 70 BBL.S CIRCULATING OUT ECD SLUG @ SLOW PUMP RATE, PUMP TRIP SLUG 75 BBL.S 15.5 |
| | 23:30 - 01:00 | 1.50 | TRP | 2 | DRLPRO | TRIP OUT TO CASING SHOE TO LAY DOWN DRILL PIPE HOLE TOOK ONLY 4 BBL.S OF FILL, CHECK FOR FLOW @ 13,900 AND 11950--NO FLOW BOTH TIMES |
| | 01:00 - 04:00 | 3.00 | CIRC | 1 | DRLPRO | RIG UP L/D TRUCK--CHECKED FLOW BEFORE L/D DRILL PIPE, WELL FLOWING 1/4" STREAM, CIRCULATE BOTTOMS UP @ SHOE AND SPOT ECD SLUG(98 BBL.S 15.9PPG) |
| | 04:00 - 04:30 | 0.50 | TRP | 3 | DRLPRO | LAY DOWN 24 JT'S 4" DP (STOP AND CHECK FOR FLOW) |
| | 04:30 - 05:00 | 0.50 | OTH | | DRLPRO | MONITOR WELL FOR FLOW WELL FLOWING 7 BBL.S HR, FLOW NOT SLOWING DOWN (POSSIBLE BALLONING) |
| | 05:00 - 06:00 | 1.00 | TRP | 1 | DRLPRO | PICK UP 24 JT'S DRILL PIPE, AND RUN IN HOLE WITH STANDS IN DERRICK |
| 11/9/2008 | 06:00 - 06:30 | 0.50 | TRP | 1 | DRLPRO | PICK UP JT'S DRILL PIPE (WELL FLOWING) |
| | 06:30 - 08:00 | 1.50 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP @ SHOE (11,963) PEAK GAS 9087 UNITS, 6' FLARE |
| | 08:00 - 09:00 | 1.00 | TRP | 2 | DRLPRO | TRIP IN HOLE 27 STANDS (HALF WAY IN OPEN HOLE) |
| | 09:00 - 10:30 | 1.50 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP @ 14,561 PEAK GAS 6,945 UNIT'S, 12' FLARE |
| | 10:30 - 11:30 | 1.00 | TRP | 2 | DRLPRO | TRIP IN HOLE TO 17,070 |
| | 11:30 - 15:00 | 3.50 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOM S UP AND SPOT ECD SLUG (160 BBL.S 16.0 PPG) PEAK GAS 6,692 UNITS, 6' FLARE |
| 11/10/2008 | 15:00 - 17:30 | 2.50 | TRP | 2 | DRLPRO | TRIP OUT TO SHOE TO L/D DRILL PIPE 54 STANDS |
| | 17:30 - 01:00 | 7.50 | TRP | 3 | DRLPRO | LAY DOWN 4" DRILL PIPE |
| | 01:00 - 01:30 | 0.50 | OTH | | DRLPRO | FIX DRILLING LINE RATS NEST ON DRUM |
| | 01:30 - 03:00 | 1.50 | TRP | 2 | DRLPRO | TRIP IN HOLE 54 STANDS OUT OF DERRICK |
| | 03:00 - 06:00 | 3.00 | TRP | 3 | DRLPRO | LAY DOWN 4" DRILL PIPE |
| | 06:00 - 09:30 | 3.50 | TRP | 3 | DRLPRO | LAY DOWN 4" DRILL PIPE AND BHA |
| | 09:30 - 10:30 | 1.00 | OTH | | DRLPRO | PULL WEAR BUSHING |
| | 10:30 - 12:00 | 1.50 | CSG | 1 | DRLPRO | RIG UP CASING CREW (ROCKY MOUNTAIN) |
| | 12:00 - 21:00 | 9.00 | CSG | 2 | DRLPRO | RUN 4 1/2" CASING TO CASING SHOE 11, |
| | 21:00 - 21:30 | 0.50 | OTH | | DRLPRO | INSTALL ROTATING HEAD RUBBER |
| | 21:30 - 22:30 | 1.00 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP @ SHOE |
| | 22:30 - 23:30 | 1.00 | CSG | 2 | DRLPRO | RUN 4 1/2 CASING TO 14,519 |
| | 23:30 - 01:00 | 1.50 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP @ 14,519 BACK GROUND GAS 4835 UNITS, 20' FLARE |
| | 01:00 - 01:30 | 0.50 | OTH | | DRLPRO | CHANGE OUT PACKER ON FILL TOOL |
| 11/11/2008 | 01:30 - 03:30 | 2.00 | CSG | 2 | DRLPRO | RUN 4 1/2" CASING TO BOTTOM TAGGED BOTTOM AND LAND CASING 2' OFF BOTTOM 17,068 |
| | 03:30 - 04:30 | 1.00 | CSG | 1 | DRLPRO | RIG DOWN CASING CREW |
| | 04:30 - 06:00 | 1.50 | CIRC | 1 | DRLPRO | CIRCULATE BOTTOMS UP @ 14,068 @ 30 STRKS, PUMPING SLOW MUD SEEPING |
| | 06:00 - 07:00 | 1.00 | CIRC | 1 | DRLPRO | CIRCULATE TO CEMENT 4 1/2" CASING |
| | 07:00 - 07:30 | 0.50 | CSG | 1 | DRLPRO | RIG DOWN CASING FILL TOOL |
| | 07:30 - 08:00 | 0.50 | CMT | 1 | DRLPRO | HOLD SAFETY MEETING AND RIG UP CEMENTERS/CEMENT HEAD |
| | 08:00 - 11:30 | 3.50 | CMT | 2 | DRLPRO | CEMENT 4 1/2 " CASING 40 BBL.S 15.0# TUNED SPACER, 222 BBL.S OF MNT "G" 15.2 CEMENT, DISPLACED 240 BBL.S OF CLAY FIX WATER, PLUG BUMPED AND HELD 20 MIN., FLOATS HELD (6.5 BBL.S BACK), |
| | 11:30 - 12:30 | 1.00 | CMT | 1 | DRLPRO | RIG DOWN CEMENTERS |
| | 12:30 - 17:00 | 4.50 | BOP | 1 | DRLPRO | PULL DRIP PANS, FLOW LINE, NIPPLE DOWN BOP, PICK UP BOPE LIFT RAILS IN SUB, |

Operations Summary Report

Legal Well Name: GH 6-20-8-21
 Common Well Name: GH 6-20-8-21
 Event Name: DRILLING
 Contractor Name: Unit Drilling Co.
 Rig Name: UNIT

Start: 8/24/2008
 Rig Release:
 Rig Number: 328

Spud Date: 8/22/2008
 End:
 Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|------------|---------------|-------|------|----------|--------|---|
| 11/11/2008 | 17:00 - 18:00 | 1.00 | CSG | 7 | DRLPRO | SET SLIPS (220,000# IN SLIPS) ROUGH CUT CASING |
| | 18:00 - 20:00 | 2.00 | BOP | 1 | DRLPRO | SET BOPE DOWN AND NIPPLE DOWN BOPE, BREAK DOWN FOR RIG MOVE |
| | 20:00 - 22:30 | 2.50 | OTH | | DRLPRO | RIG DOWN TOP DRIVE, BREAK ALL CONNECTIONS, L/D DOWN TONGS--ROTARY TOOLS |
| | 22:30 - 02:30 | 4.00 | BOP | 1 | DRLPRO | RIG UP STRONG BACK TO PICK UP BOPE, TAKE ROTATING HEAD OFF ANNULAR--WELL IS FLOWING 1/4" STREAM-PICK BOPE TO SET PACK OFF SET BOP DOWN, 750 PSI AND BACK SIDE OF 7" CASING |
| | 02:30 - 06:00 | 3.50 | OTH | | DRLPRO | RIG DOWN TOP DRIVE AND RIG FLOOR (ROTARY TOOLS)/ MONITORING WELL 750 PSI ON CASING @ 0430 AM, 975 PSI @ 0600 AM |
| 11/12/2008 | 06:00 - 12:00 | 6.00 | OTH | | DRLPRO | RIG DOWN TOP DRIVE RAIL, SERVICE LOOP ON TOP DRIVE, CLEAN AROUND RIG PITS, SHAKERS |
| | 12:00 - 06:00 | 18.00 | LOC | 4 | DRLPRO | RIG DOWN RIG FLOOR, BRIDLE UP, BREAK LINES APART ON TANKS, PUMPS, PULL CORDS, KOOMY LINES, BREAK FLOW LINE, RAISE CAT-A-LEVER CAT WALK, RIG DOWN TUGGERS, CHOKE LINE, DRAIN CENTRIFACAL PUMPS |
| 11/13/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | RDMO | PULLED FLOOR PLATES, LAYED DN DERRICK, UNSTRUNG BLOCKS. PULL ELECTRICAL LINES AND BREAK LINES. PICK MUD CLEANING EQUIPMENT F/ MUD PITS. CLEANING OBM F/ RIG COMPONENTS. STAGED OUT FUEL TANK, MOTOR PACKAGE, TWO MUD TANKS, HOPPER HOUSE, PARTS HOUSE. ONE BED TRUCK, ONE POLE TRUCK AND ONE CRANE ON LOCATION. SECOND CRANE AND ROAD TRUCKS DUE ON LOCATION IN THE AM. NOTE: BLED OFF 1,200 PSI FROM BACK SIDE OF CASING, 0 PRESSURE. |
| 11/14/2008 | 18:00 - 06:00 | 12.00 | LOC | 4 | RDMO | WAIT ON DAYLIGHTS |
| | 06:00 - 18:00 | 12.00 | LOC | 4 | RDMO | SET DERRICK OFF FLOOR. FINISHED PULLING OUT BACK YARD. STEAM CLEANING RIG COMPONENTS. HAULED 13 LOADS T/ MESA. 98% RIGGED DN WILL UNSTACK SUBS, PULL BOP, AND UN PIN DERRICK TOMORROW |
| | 18:00 - 06:00 | 12.00 | | | RDMO | WAIT ON DAYLIGHTS |

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Operations Summary Report

Legal Well Name: GH 6-20-8-21
Common Well Name: GH 6-20-8-21
Event Name: COMPLETION
Contractor Name:
Rig Name:

Start: 11/18/2008 Spud Date: 8/22/2008
Rig Release: End:
Rig Number: Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|------------|---------------|-------|------|----------|--------|--|
| 11/18/2008 | 08:00 - 14:00 | 6.00 | LOG | 2 | C-LOG | MIRU OWP ELU. MU AND RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS AND TAG CORRELATED PBTD AT 17,046' (FC @ 17,066'). PRESSURE UP TO 4,000 PSI AND LOG UP TO 7,000'. BLEED PRESSURE TO ZERO AND POOH. RDMO ELU. EST. TOC AT 7,700'. BHT= 326". |
| 11/29/2008 | 08:00 - 14:00 | 6.00 | PERF | 2 | C-PERF | SPOT IPS FBE. |
| 11/30/2008 | 09:00 - 13:00 | 4.00 | PERF | 2 | C-PERF | MIRU IPS FB AND OWP ELU. MU & RIH WITH 2.5" GUNS. SHOOT 90 HOLES FROM 16,527' TO 17,040'. 500 PSI WHEN GUNS WERE FIRED. 900 PSI WITH GUNS AT SURFACE. |
| 12/1/2008 | 13:00 - 19:00 | 6.00 | STIM | 2 | C-STIM | MIRU HES FRAC EQUIPMENT. |
| | 06:00 - 07:30 | 1.50 | STIM | 3 | C-STIM | FRAC STAGE #1 WITH 1,543 BBLS 35# HYBOR-G CARRYING 52,545 LBS 30/50 TLC AND 28,648 LBS 30/50 SINTERLITE SAND FROM .5 TO 4 PPA. AVG RATE= 47.8 BPM. AVG PSI= 10,106. |
| | 07:30 - 11:50 | 4.33 | PERF | 2 | C-PERF | STAGE #2. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 16,390' WITH 8,000 PSI. SHOOT 42 HOLES FROM 15,781' TO 16,370'. |
| | 11:50 - 13:15 | 1.42 | STIM | 3 | C-STIM | FRAC STAGE #2 WITH 2,428 BBLS SLICKWATER CARRYING 30,284 LBS 30/50 TLC AND 13,735 LBS 30/50 SINTERLITE SAND. AVG RATE= 43.6 BPM. AVG PSI = 10,670. |
| | 13:15 - 16:30 | 3.25 | PERF | 2 | C-PERF | STAGE #3. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 15,690' WITH 8,500 PSI. SHOOT 42 HOLES FROM 14,891' TO 15,665'. |
| | 16:30 - 21:20 | 4.83 | STIM | 3 | C-STIM | FRAC STAGE #3 WITH 2,223 BBLS SLICKWATER CARRYING 33,817 LBS 30/50 TLC SAND. AVG RATE= 37.4 BPM. AVG PSI= 10,953. SCREENED OUT IN 13 # STAGE. PLACED 17 SKS IN WELLBORE. FLOWED WELL BACK TO CLEAN OUT WELLBORE. |
| | 21:20 - 23:45 | 2.42 | PERF | 2 | C-PERF | BACK WELL DOWN WITH 220 BBLS STAGE #4. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET PLUG AT 14,800' WITH 8,300 PSI. SHOOT 42 HOLES FROM 14,013' TO 14,779'. |
| | 23:45 - 01:15 | 1.50 | STIM | 3 | C-STIM | FRAC STAGE #4 WITH 2,522 BBLS SLICKWATER CARRYING 42,501 LBS 30/50 TLC SAND. AVG RATE= 39.5 BPM. AVG PSI = 9,858. |
| | 01:15 - 03:20 | 2.08 | PERF | 2 | C-PERF | STAGE #5. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 13,920' WITH 7,200 PSI. SHOOT 42 HOLES FROM 13,737' TO 13,898'. |
| | 03:20 - 04:45 | 1.42 | STIM | 3 | C-STIM | FRAC STAGE #5 WITH 2,840 BBLS SLICKWATER CARRYING 5,000 LBS 100 MESH & 42,111 LBS 30/50 TLC SAND. AVG RATE= 43.0 BPM. AVG PSI = 9,527. |
| | 04:45 - 07:00 | 2.25 | PERF | 2 | C-PERF | STAGE #6. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET PLUG AT 13,620' WITH 7,000 PSI. SHOOT 42 HOLES FROM 12,842' TO 13,598'. |
| | 07:00 - 08:15 | 1.25 | STIM | 3 | C-STIM | FRAC STAGE #6 WITH 2,442 BBLS SLICKWATER CARRYING 22,800 LBS 30/50 WHITE AND 19,300 LBS 30/50 TLC SAND. AVG RATE= 43.3 BPM. AVG PSI = 8,031. |
| | 08:30 - 10:40 | 2.17 | PERF | 2 | C-PERF | STAGE #7 RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 12,730' WITH 5,800 PSI. SHOOT 36 HOLES FROM 12,157' TO 12,704'. |
| | 10:40 - 11:55 | 1.25 | STIM | 3 | C-STIM | FRAC STAGE #7 WITH 2,477 BBLS SLICKWATER CARRYING 25,600 LBS 30/50 WHITE AND 19,400 LBS 30/50 TLC SAND. AVG RATE= 45.2 BPM. AVG PSI = 6,975. |
| 12/2/2008 | 11:55 - 13:30 | 1.58 | PERF | 2 | C-PERF | STAGE #8. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 11,680' WITH 4,900 PSI. SHOOT 33 HOLES FROM 11,318' TO 11,650'. |

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Operations Summary Report

Legal Well Name: GH 6-20-8-21
 Common Well Name: GH 6-20-8-21
 Event Name: COMPLETION
 Contractor Name:
 Rig Name:

Start: 11/18/2008 Spud Date: 8/22/2008
 Rig Release: End:
 Rig Number: Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|--|
| 12/2/2008 | 13:30 - 15:50 | 2.33 | STIM | 3 | C-STIM | FRAC STAGE #8 WITH 2,898 BBLS SLICKWATER CARRYING 57,600 LBS 30/50 WHITE AND 17,200 LBS 30/50 TLC SAND. AVG RATE= 46 BPM. AVG PSI = 6,300. |
| | 15:50 - 16:20 | 0.50 | PERF | 2 | C-PERF | STAGE #9. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET PLUG AT 11,264' WITH 3,800 PSI. SHOOT 39 HOLES FROM 10,716' TO 11,230'. |
| | 16:25 - 17:38 | 1.22 | STIM | 3 | C-STIM | FRAC STAGE #9 WITH 2,887 BBLS SLICKWATER CARRYING 54,000 LBS 30/50 WHITE AND 13,100 LBS 30/50 TLC SAND. AVG RATE= 41 BPM. AVG PSI = 5,660. |
| | 17:45 - 19:00 | 1.25 | PERF | 2 | C-PERF | STAGE #10. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET PLUG AT 10,455' WITH 3,700 PSI. SHOOT 30 HOLES FROM 10,209' TO 10,435'. |
| | 19:17 - 20:30 | 1.22 | STIM | 3 | C-STIM | FRAC STAGE #10 WITH 2,247 BBLS SLICKWATER CARRYING 35,426 LBS 30/50 WHITE AND 17,529 LBS 30/50 PRC SAND. AVG RATE= 40.5 BPM. AVG PSI = 5,252. |
| | 20:30 - 21:30 | 1.00 | PERF | 2 | C-PERF | STAGE #11. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 9,236' WITH 3,400 PSI. SHOOT 21 HOLES FROM 9,095' TO 9,219'. |
| | 21:36 - 21:57 | 0.35 | STIM | 3 | C-STIM | FRAC STAGE #11 WITH 658 BBLS SLICKWATER CARRYING 25,743 LBS 30/50 WHITE AND 13,808 LBS 30/50 PRC SAND. AVG RATE= 40 BPM. AVG PSI = 6,036. |
| | 22:05 - 23:05 | 1.00 | PERF | 2 | C-PERF | STAGE #12. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 7730' WITH 3,100 PSI. SHOOT 27 HOLES FROM 7,062' TO 7,712'. |
| | 23:05 - 23:30 | 0.42 | STIM | 3 | C-STIM | FRAC STAGE #12 WITH 754 BBLS SLICKWATER CARRYING 38,499 LBS 30/50 WHITE AND 26,020 LBS 20/40 PRC SAND. AVG RATE= 45.0 BPM. AVG PSI = 4,593. |
| | 23:30 - 03:00 | 3.50 | LOC | 4 | C-OTH | RDMO OWP ELU AND HES FRAC EQUIPMENT. |
| 12/3/2008 | 06:00 - 19:30 | 13.50 | DRL | 6 | C-STIM | MIRU IPS CTU, GCDOE AND SPIRIT FLUIDS. LOAD CT WITH 110" WATER. MU QES 2 7/8" MOTOR/JARS AND 3.55" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI. RIH AND DRILL OUT 11 PLUGS IN 6.5 HOURS TO PBDT DEPTH OF 17,066'. PUMP FINAL SWEEP AND POOH. RDMO IPS CTU, GCDOE & SPIRIT FLUIDS. |
| 12/4/2008 | 19:30 - 06:00 | 10.50 | PTST | 2 | C-POST | FLOWING TO SALES THROUGH IPS FBE. |
| 12/5/2008 | 19:30 - 06:00 | 10.50 | PTST | 2 | C-POST | FLOWING TO SALES THROUGH IPS FBE. |
| 12/6/2008 | 19:30 - 06:00 | 10.50 | PTST | 2 | C-POST | FLOWING TO SALES THROUGH IPS FBE. |
| 12/7/2008 | 06:00 - 06:00 | 24.00 | PTST | 2 | C-POST | FLOWING TO SALES THROUGH IPS FBE. RDMO IPS FBE. |

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Operations Summary Report - DRILLING

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|--------------------------|-------|------|----------|--|
| 8/25/2008 | 06:00 - 09:00 | 3.00 | LOC | 2 | SPUD WELL ON 8-22-08 AT 17:00 HRS. DRILL 30" HOLE 80' DEEP AND SET 20" CONDUCTOR PIPE. CEMENT WITH READY MIX. PETE MARTIN RAT HOLE. |
| | 09:00 - 18:30 | 9.50 | DRL | 9 | HAMMER DRILL 17.5" HOLE TO 530' BLOW DOWN WELL. |
| | 18:30 - 19:30 | 1.00 | TRP | 3 | LAY DOWN DRILL STRING. |
| | 19:30 - 22:00 | 2.50 | CSG | 2 | RUN 12 JOINTS OF 13 3/8" J-55, 68#, BTC CASING AS FOLLOWS: SHOE AT 510', FLOAT COLLAR AT 465.47'. RAN 3 CENTRALIZERS FROM 500' TO 380' AND ONE AT 84'. |
| | 22:00 - 23:00 | 1.00 | CMT | 2 | NOTE: ALL MEASUREMENTS ARE FROM GROUND LEVEL. YOU WILL NEED CASING TEST WHEN YOU TEST BOP'S. CEMENT AS FOLLOWS: PUMP 80 BBL OF FRESH WATER AND 20 BBL OF GEL SPACER. LEAD CEMENT 15.8 PPG, 500 SK, 102 BBL, YEALD 1.15, GAL/SK 5, DISPLACE WITH 69 BBL OF FRESH WATER. PLUG BUMPED TO 800 PSI OK, FCP 300, FLOAT HELD. CEMENT TO SURFACE 24 BBL. |
| 9/3/2008 | 23:00 - 06:00 06:00 - | 7.00 | WOT | 1 | WAIT ON CEMENT. CONTACT BLM MICHAEL LEE ON 8-21-2008 AT 14:15 HRS FOR SPUDGING ON 8-22-2008 AT 17:00 HRS. CONTACT UTAH STATE ON 8-21-2008 AT 14:30 HRS FOR SPUDGING ON 8-22-2008 AT 17:00 HRS. NOTIFIED WONSIT VALLEY AND RED WASH OFFICE FOR SPUDGING WELL. CONTACT BLM JAMIE SPARGER ON 8-23-2008 AT 23:00 HRS FOR RUNNING CASING AND CEMENT ON 8-24-2008 AT 16:00 HRS. LEFT VOICE MESSAGE. |
| | 06:00 - 18:00 | 12.00 | LOC | 4 | RIG DOWN TOP DRIVE RAIL, SERVICE LOOP RIG DOWN BOP LIFTER UNHOOK KOOMEY UNIT, LAY OVER DERRICK @ 1500 HRS, UNSPOOL DRAWWORKS TAKE WRAPS OFF OF DEAD MAN, REMOVE ROTARY DRIVELINE, UNBOLT ROTARY CHAIN, REMOVE CHOKE LINE R/D FLARE LINES & DRY SHAKER |
| 9/4/2008 | 18:00 - 06:00 | 12.00 | LOC | 4 | 40% RIGGED DOWN & 20% RIG MOVED 0 % RIGGED UP |
| | 06:00 - 18:00 | 12.00 | LOC | 4 | RIG DOWN UNBRIDLE BLOCKS, LAY A LEGS OVER, UN-PIN DERRICK FOR RIG FLOOR REMOVE DOG HOUSES, RIG DOWN MOTOR PACKAGED, WATER TANKS PULL ELECTRICAL CABLES & SPOOL UP REMOVE TOP DRIVE MODULE HOUSE OFF SUB UNDO DRAWWORKS LEADS & REMOVE DRAWWORKS F/ FLOOR, R/D & MOVE GRASSHOPPER, DISASSEMBLY REMAINING SUB STRUCTURE, LOAD OUT BACK YARD & SOLID CONTROL EQUIPMENT ALL MOVE TO NEW LOCATION NIPPLE DOWN BOPS MOVE TO NEW LOCATION ON OLD LOCATION (SUCTION TANK & ONE MUD TANK W/ CAMP & RIG OFFICES |
| 9/5/2008 | 18:00 - 06:00 | 12.00 | LOC | 4 | 95% RIG PACKAGED OFF OF OLD LOCATION 15% RIGGED UP ON NEW LOCATION NOTE: DURING RIGGING UP UNITS MECHANIC & RIG MANAGER WILL CARRY OUT FULL INSPECTION ON DRAWWORKS |
| | 06:00 - 18:00 | 12.00 | LOC | 4 | PRESSURE WASH DERRICK DURING MOVING RIG & RIGGING UP SPOT SUB STRUCTURE & RIG UP FLOOR, RAISE A LEGS PIN SAME, PIN DERRICK TO RIG FLOOR SET TOP DRIVE HOUSE SET GAS BUSTER & BACK YARD MOVE CAMP & OFFICES COMPLETE RIG OFF OLD LOCATION @ 0900 HRS, & CAMP OFF OLD LOCATION @ 1400 HRS, CLEAN OLD LOCATION |
| 9/6/2008 | 18:00 - 06:00 | 12.00 | LOC | 4 | 70 % RIGGING UP ON NEW LOCATION |
| | 06:00 - 18:00 | 12.00 | LOC | 4 | INSPECT DRAWWORKS FOUND LOW CLUTCH CHAIN (ROLLER'S MISSING & SOME CRACK) CHANGE OUT OIL FINISHED INSPECTION @ 1630 HRS, PICK UP DERRICK F/ HEAD RACK STRESS LOAD TEST FOR 30 MINUTES & RASIE DERRICK PIN TO A LEGS @ 1800 HRS. FULL INSPECTION WAS CARRIED OUT ON TOP DRIVE FOUND NO DEFECTS & INSPECTED ALL THREAD CONNECTION BY THIRD PARTY R/UP DRY SHAKER & CUTTING LINES TO |

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Printed: 1/29/2009 2:46:10 PM

Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20-8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 9/6/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | WASTE PIT HOOK UP ALL ELE. CABLE CHANGE OUT MAIN BLOWER IN SCR HOUSE (MOTOR GOING BAD) REPLACE HYDRAULIC CONTROL VALVE SYSTEM @ DRILLER CONSOLE OBSERVE DURING LAST WELL CONTROL VALVE WAS WASHING OUT CAUSING BREAK OUT CYLINDER NOT TO WORK PROPERLY R/UP KOOMEY LINES, WATER LINES, YELLOW DOG, STALLION OBM FARM TANKS, GROUND RODS, HOPPER HOUSE, |
| | 18:00 - 06:00 | 12.00 | LOC | 4 | 80 % RIGGED UP PLAN IS TO CARRY OUT FULL INSPECTION ON MUD PUMPS DURING RIGGING UP TOP DRIVE & RAILS (UNIT WILL HAVE THREE MECHANIC'S ON LOCATION @ 0800 HRS) TO COMPLETE INSPECTIONS |
| 9/7/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | CALL GAYLAND RICH (BLM) ABOUT BOP TEST LEFT VOICE MESSAGE @ 12:30 HRS ON 9/6/08, CALL ON 9/5/08 LEFT MESSAGE @ 1430 HRS. R/UP & CARRY OUT INSPECTION ON BOTH MUD PUMPS & ENGINES BY UNITS MECHANIC FOUND NO DEFECTS START WATER CIRCULATION RUN KOOMEY HOSE, LAYDOWN CAT WALK BRIDLE DOWN, RIG UP DERRICK CLIMBER P/UP TOP DRIVE RAILS, HOOK UP SWIVEL, TOP DRIVE |
| | 18:00 - 06:00 | 12.00 | LOC | 4 | RIG UP SERVICE LOOP, HOOK UP TOP DRIVE TO TOP DRIVE HOUSE, PUT ON TURNBUCKLES FOR TOP DRIVE TRACK. 90% RIGGED UP |
| 9/8/2008 | 06:00 - 12:00 | 6.00 | LOC | 4 | REPLACE LOW CLUTCH DRAWWORKS CHAIN W/ AMERICAN CHAIN R/UP FLOW LINE ATT. TO TORQUE UP TOP DRIVE CONNECTIONS LOST COMMUNICATION W/ DRILLER CONSOLE & TOP DRIVE CALL OUT TECHICAN FOUND DAMAGED CABLE GOING TO TOP DRIVE INSTALL BELLS & ELEVATORS ON TOP DRIVE |
| | 12:00 - 14:30 | 2.50 | BOP | 1 | TORQUE UP BOPS CONNECTIONS & PREPARE TO TEST BOPS |
| | 14:30 - 22:00 | 7.50 | BOP | 2 | FUNCTION TEST BOPS & P/TEST BOPS W/ LOW 250 PSI & HIGH 5000 PSI |
| | 22:00 - 00:00 | 2.00 | OTH | | INSTALL WEAR BUSHING & LOW PRESSURE ROTATING HEAD ASSEMBLY |
| 9/9/2008 | 00:00 - 02:00 | 2.00 | TRP | 1 | LAY OUT BHA & STRAP |
| | 02:00 - 06:00 | 4.00 | TRP | 1 | M/UP RE-TIP REED MILL TOOTH BIT 12 1/4" & PICK UP 12 1/4 BHA |
| | 06:00 - 07:00 | 1.00 | TRP | 1 | CONTINUE TO PICK UP 12 1/4 BHA TAG LANDING COLLAR @ 466' OBSERVE SPEAR LEAKING ON DRAWWORKS DRILLER SIDE |
| | 07:00 - 07:30 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP |
| | 07:30 - 09:00 | 1.50 | LOG | 4 | CUT & SLIP DRILLING & WAIT ON UNITS MECHANIC |
| | 09:00 - 13:30 | 4.50 | RIG | 2 | REPAIR WATER LEAK ON DRAWWORKS CHANGE OUT SNUFFING BOX |
| | 13:30 - 15:30 | 2.00 | DRL | 5 | DRILL OUT SHOE TRACK & CIR. BOTTOMS UP |
| | 15:30 - 16:00 | 0.50 | EQT | 2 | FIT EQU. TO 10.5 PPG HOLD FOR 15 - MINUTES (GOOD TEST) |
| | 16:00 - 17:30 | 1.50 | DRL | 1 | DRILL F/ 520' TO 570' |
| | 17:30 - 18:00 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP |
| | 18:00 - 19:00 | 1.00 | TRP | 2 | TRIP OUT HOLE TO PICK UP HOLE OPENER & 8 3/4 BIT & MOTOR |
| | 19:00 - 21:30 | 2.50 | TRP | 1 | L/D 12 1/4 BIT & M/UP 8 3/4 BIT & MUD MOTOR W/ 12.25 HOLE OPENER& RIH |
| | 21:30 - 06:00 | 8.50 | DRL | 1 | DRILL F/ 570' TO 1280' 710' @ 84' P/HR WOB 10 TO 20 MUD WT 9 PPG VIS 29 |
| | 06:00 - 10:00 | 4.00 | DRL | 1 | DRILL F/ 1280' TO 1578' 298' @ 75' P/HR WOB 10/20 MUD WT 9.0 PPG VIS 32 |
| | 10:00 - 10:30 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP WIRE LINE (.6 DEG.) @ 1528' |
| 9/10/2008 | 10:30 - 15:00 | 4.50 | DRL | 1 | DRILL F/ 1578' TO 1866' 288' @ 66' P/HR WOB 10/20 MUD WT 9.1 PPG VIS 30 |
| | 15:00 - 15:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 15:30 - 18:00 | 2.50 | DRL | 1 | DRILL F/ 1866' TO 2040' 174' @ 70' P/HR WOB 10/20 MUD WT 9.1 PPG VIS 32 |
| | 18:00 - 18:30 | 0.50 | OTH | | RE-TIGHTEN ROTATING HOUSING (LEAKING @ CONNECTION) |
| | 18:30 - 19:00 | 0.50 | DRL | 1 | DRILL F/ 2040' TO 2089' |
| | 19:00 - 20:00 | 1.00 | RIG | 2 | TOP DRIVE REPLACE PIN ON AN CYLINDER ARM |
| | 20:00 - 05:30 | 9.50 | DRL | 1 | DRILL F/ 2089' TO 2534' 445' @ 48' P/HR WOB 15/20 MUD WT 9.2 PPG VIS 31 |
| | 05:30 - 06:00 | 0.50 | CIRC | 1 | CIR. & WIRELINE SURVEY |
| | 06:00 - 11:30 | 5.50 | DRL | 1 | DRILL FROM 2,534 TO 2,724 (ROP 34.5' HR) WOB 20-24, ROT 75, MW 9.2, VIS 29, BG GAS 800 UNITS OFF BUSTER |
| | 11:30 - 12:00 | 0.50 | RIG | 1 | SERVICE RIG, TOP DRIVE, SWIVEL |
| | 12:00 - 18:00 | 6.00 | DRL | 1 | DRILL FROM 2,724 TO 2,925 (ROP 33.5' HR) WORK SAME PERRAMETERS,, |
| 9/11/2008 | | | | | |
| | | | | | |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 9/11/2008 | 12:00 - 18:00 | 6.00 | DRL | 1 | HAD TAR COMING OVER SHAKER 2825' |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 2,925 TO 3,297 (ROP 31' HR) WORK SAME PERAMETERS--DRILLING THRU BIRDS NEST @ REPORT TIME |
| 9/12/2008 | 06:00 - 08:30 | 2.50 | DRL | 1 | DRILL FROM 3,297 TO 3,392 (ROP 38' HR) WOB 20-24, RPM 75, MW 9.0, VIS 29, BG GAS 1600 UNITS |
| | 08:30 - 09:30 | 1.00 | SUR | 1 | SURVEY @ 3323 1.3 DEG AZ 178.9 |
| | 09:30 - 12:30 | 3.00 | DRL | 1 | DRILL FROM 3,392 TO 3,483 (ROP 30.3) WORK SAME PERAMETERS, HAD ALOT OF SLIP STICK AND SLOWED TO 15' HR FOR 45 MIN |
| | 12:30 - 14:30 | 2.00 | TRP | 10 | TRIP OUT FOR BIT CHANGE |
| | 14:30 - 15:30 | 1.00 | TRP | 1 | LAY DOWN HOLE OPENER, MOTOR, BIT AND PICK UP THE SAME |
| | 15:30 - 17:00 | 1.50 | TRP | 10 | TRIP IN HOLE FILL @ BHA |
| | 17:00 - 17:30 | 0.50 | RIG | 1 | SERVICE RIG BLOCK, SWIVEL, DRAW-TOOL |
| | 17:30 - 04:30 | 11.00 | DRL | 1 | DRILL FROM 3,483 TO 3,854 (ROP 33.7' HR) WOB 17-24, RPM 75-80, MW 9.0+, VIS 32, BG GAS DRILLED SOME REAL AGRESSIVE SAND @ 3650 AND HAVE BEEN IN AND OUT OF SHARP SAND ALL NIGHT |
| | 04:30 - 05:00 | 0.50 | SUR | 1 | DROP SURVEY AND CHECK FLOW-WELL FLOWING 1/4" STREAM |
| | 05:00 - 06:00 | 1.00 | DRL | 1 | DRILL FROM 3,854 TO 3862 (ROP 8' HR) WORK DIFFERENT PERAMETERS BRING MW TO 9.4 IN ACTIVE |
| 9/13/2008 | 06:00 - 08:30 | 2.50 | TRP | 10 | TRIP OUT OF HOLE NO HOLE PROBLEMS |
| | 08:30 - 09:30 | 1.00 | TRP | 1 | LAY DOWN MOTOR, HOLE OPENER, X-OVER, PICK UP NEW 8 1/2" MOTOR AND BIT |
| | 09:30 - 12:00 | 2.50 | TRP | 10 | TRIP IN HOLE FILL @ BHA AND 3743 |
| | 12:00 - 13:30 | 1.50 | REAM | 1 | WASH AND REAM FROM 3,743 TO 3,862-- TOP OF 8 3/4" PILOT STARTED @ 3,823' |
| | 13:30 - 17:30 | 4.00 | DRL | 1 | DRILL FROM 3,862 TO 3,971(ROP 27.3' HR) WOB 12-14, DHRPM 127, MW 9.4, VIS 29, BG GAS 414 |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | SERVICE RIG TOP DRIVE, BLOCKS AND SWIVEL |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 3,971 TO 4,308 (ROP 28' HR) WOB 12-15, DHRPM 125, MW 9.3, VIS 30, BG GAS 120-- NO LOSSES |
| | 06:00 - 13:30 | 7.50 | DRL | 1 | DRILL FROM 4,308 TO 4,537 (ROP 30.5' HR) WOB 13-15, DHRPM 130, MW 9.3, VIS 31, BG GAS 76 |
| 9/14/2008 | 13:30 - 14:00 | 0.50 | RIG | 1 | SERVICE TOP DRIVE, BLOCKS, SWIVEL |
| | 14:00 - 20:00 | 6.00 | DRL | 1 | DRILL FROM 4,537 TO 4,728 (ROP 31.8' HR) WORK SAME PERAMETERS, MW 9.3, VIS 31, BG GAS 25 |
| | 20:00 - 21:00 | 1.00 | SUR | 1 | CIRCULATE AND SURVEY @ 4655 .9 DEG, 149.0 AZ |
| | 21:00 - 06:00 | 9.00 | DRL | 1 | DRILL FROM 4,728 TO 4,963 (ROP 26.1' HR) WOB 13-20, DHRPM 120-145, MW 9.3, VIS 32, HAD ALOT OF SLIP STICK @ 4805-4823 & 4871-4905 |
| | 06:00 - 12:30 | 6.50 | DRL | 1 | DRILL FROM 4,963 TO 5,110 (ROP 22.6' HR)WOB 13-20, DHRPM 125-135, MW 9.3, VIS 32, BG GAS 120, ROP SLOWED TO 12' HR FOR 1 1/2 HR.S |
| 9/15/2008 | 12:30 - 13:00 | 0.50 | RIG | 1 | RIG SERVICE, GREASE CROWN, BLOCKS, SWIVEL, DRAWWORKS |
| | 13:00 - 14:30 | 1.50 | DRL | 1 | DRILL FROM 5,110 TO 5,122 (ROP 8' HR) WORK ALL DIFFERANT PERAMETERS COULDN'T GET TO DRILL |
| | 14:30 - 15:00 | 0.50 | SUR | 1 | CHECKED FLOW--NO FLOW AND DROP SURVEY @ 5,070 |
| | 15:00 - 16:30 | 1.50 | TRP | 10 | TRIP OUT OF HOLE |
| | 16:30 - 17:00 | 0.50 | TRP | 1 | LAY DOWN MOTOR AND BIT AND PICK UP SAME |
| | 17:00 - 19:00 | 2.00 | TRP | 10 | TRIP IN HOLE FILL @ BHA AND 5,011 |
| | 19:00 - 19:30 | 0.50 | REAM | 1 | WASH FROM 5,011 TO 5,122 (NO HOLE FILL) |
| | 19:30 - 06:00 | 10.50 | DRL | 1 | DRILL FROM 5,122 TO 5310 (ROP 17.9' HR) WOB 12-18, DHRPM 135-155, MW 9.3, VIS 32, HAVE HAD ALOT OF SLIP STICK WITH NEW BIT AND MOTOR--HAVE TRIED DIFFERENT PERAMETERS TO GET SLIP STICK OUT-NO LUCK |
| | 06:00 - 11:00 | 5.00 | DRL | 1 | DRILL FROM 5,310 TO 5,450 (ROP 28' HR) WOB 12-16, DHRPM 125-135, MW 9.3, VIS 32, HAD ALOT OF SLIP STICK |
| | | | | | |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 9/16/2008 | 11:00 - 12:00 | 1.00 | CIRC | 7 | CIRCULATE UP FORMATION SAMPLE, FIRM SHALE- GEO-DON WEAVER |
| | 12:00 - 13:00 | 1.00 | TRP | 14 | SHORT TRIP FOR 9 5/8 CASING RUN, NO HOLE FILL |
| | 13:00 - 14:00 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP TO RUN CASING-SHAKER WERE CLEAN, |
| | 14:00 - 14:30 | 0.50 | SUR | 1 | FLOW CHECK AND DROP SURVEY @ 5378 .8 DEG, 182.5 AZ |
| | 14:30 - 16:30 | 2.00 | TRP | 2 | TRIP OUT OF HOLE TO RUN CASING (SLM 5450.57) |
| | 16:30 - 17:30 | 1.00 | TRP | 1 | LAY DOWN 8" COLLARS AND MOTOR |
| | 17:30 - 18:00 | 0.50 | OTH | | PULL WEAR BUSHING |
| | 18:00 - 19:30 | 1.50 | CSG | 1 | HELD SAFETY MEETING AND RIG UP CASING CREW |
| | 19:30 - 00:30 | 5.00 | CSG | 2 | RUN 9 5/8 123 JOINTS, 47#, HCP110, CASING AS FOLLOWS SHOE @ 5439, FLOAT COLLAR @ 5354, RAN 25 CENTRALIZERS EVERY 120'+/- LANDED HANGER |
| | 00:30 - 01:30 | 1.00 | CSG | 1 | R/D CASING CREW WHILE CIRCULATING |
| 9/17/2008 | 01:30 - 02:30 | 1.00 | CIRC | 1 | CIRCULATE HOLE THRU FLUTED HANGER |
| | 02:30 - 05:30 | 3.00 | OTH | | PACK OFF WELL HEAD AND SET CEMENT ISOLATION TOOL TO CEMENT THRU "A" SECTION |
| | 05:30 - 06:00 | 0.50 | CIRC | 1 | CIRCULATE CASING THRU "A" SECTION TO CEMENT |
| | 06:00 - 09:00 | 3.00 | CIRC | 1 | CIRCULATE CASING THRU A SECTION FOR CEMENT JOB,(FOAMING PUMPS NOT WORKING ON FOAMING TRAILER, FOUND @ 07:15 |
| | 09:00 - 14:30 | 5.50 | CMT | 2 | HELD SAFETY MEETING & RIG UP AND CEMENT 9 5/8 CASING PUMPED 50 BBL.S OF SPACER TRAIN, 30 BBL.S OF SCAVENGER CEMENT 7 PPG, 165 BBL.S FIRST LEAD 8.5 PPG, 210 BBL.S OF 2ND LEAD 11 PPG, 62 BBL.S OF TAIL CEMENT 14.3 PPG, DIPLACED WITH 392 BBL.S OF 9.3 MUD, LOST RETURNS 200 BBL.S INTO DIS PLACEMENT, PLUG BUMPED AND FLOATS HELD, PUMPED 55 BBL.S OF CAP 14.6 PPG |
| | 14:30 - 15:30 | 1.00 | CMT | 1 | RIG DOWN CEMENTERS |
| | 15:30 - 16:00 | 0.50 | OTH | | PULL CEMENT ISOLATION TOOL |
| | 16:00 - 20:30 | 4.50 | BOP | 2 | RIG UP TESTERS AND TEST BOPE TO 10,000 PSI |
| | 20:30 - 21:00 | 0.50 | TRP | 1 | PICK UP MOTOR AND MONEL |
| | 21:00 - 23:30 | 2.50 | TRP | 2 | TRIP IN HOLE FILL @ BHA AND @ 5,329 |
| 9/18/2008 | 23:30 - 00:30 | 1.00 | DRL | 4 | DRILL FLOAT COLLAR AND SHOE |
| | 00:30 - 01:30 | 1.00 | DRL | 1 | DRILL FROM 5450 TO 5460 10' OF NEW HOLE FOR FIT TEST |
| | 01:30 - 02:00 | 0.50 | EQT | 2 | PERFORM FIT TEST MW 9.3PPG + 1205 PSI = 13.54 EQUIV. MW |
| | 02:00 - 06:00 | 4.00 | DRL | 1 | DRILL FROM 5,460 TO 5,521 (ROP 15.3' HR) WOB 5-20, DHRPM 140-160,MW 9.3 VIS 32, BG GAS |
| | 06:00 - 10:30 | 4.50 | DRL | 1 | DRILL 8 1/2" HOLE FROM 5529' TO 5614' (18.9' HR) |
| | 10:30 - 11:00 | 0.50 | RIG | 1 | RIG SERVICE |
| | 11:00 - 21:30 | 10.50 | DRL | 1 | DRILL FROM 5614' TO 5741' (ROP 12' HR) |
| | 21:30 - 22:00 | 0.50 | SUR | 1 | DROP SURVEY |
| | 22:00 - 00:30 | 2.50 | TRP | 10 | PUMP TRIP SLUG TRIP OUT OF HOLE |
| | 00:30 - 01:00 | 0.50 | TRP | 1 | CHANGE OUT BIT |
| 9/19/2008 | 01:00 - 03:30 | 2.50 | TRP | 10 | TRIP IN HOLE WITH NEW BIT- FILL @ BHA AND 5,615 |
| | 03:30 - 04:00 | 0.50 | REAM | 1 | WASH FROM 5,615 TO 5,741 (NO FILL) |
| | 04:00 - 06:00 | 2.00 | DRL | 1 | DRILL FROM 5,741 TO 5,800 (ROP 29.5' HR) WOB 5-8, DHRPM 160-175, MW 9.3, VIS 36, BG GAS 31, |
| | 06:00 - 15:30 | 9.50 | DRL | 1 | DRILL FROM 5,800 TO 5,908 (ROP 11.4' HR) WOB 5-15, DHRPM 120-160, BG GAS 30 UNITS, WORK DIFFERNT PARAMETERS TO GET TO DRILL- NO LUCK-DROPPED TO 5' HR FOR ONE HR |
| | 15:30 - 16:00 | 0.50 | RIG | 1 | SERVICE RIG- TOP DRIVE, BLOCKS, SWIVEL |
| | 16:00 - 19:00 | 3.00 | TRP | 10 | TRIP OUT OF HOLE TO CHANGE BIT AND CBL LOGS |
| | 19:00 - 19:30 | 0.50 | LOG | 2 | HELD SAFETY MEETING AND RIG UP CUTTERS WIRE LINE |
| | 19:30 - 22:00 | 2.50 | LOG | 2 | LOG CASING TOP OF CEMENT @ 1910 |
| | 22:00 - 22:30 | 0.50 | LOG | 2 | RIG DOWN LOGERS |
| | 22:30 - 23:00 | 0.50 | TRP | 1 | PICK UP BIT SUB, TORQUE BUSTER, BIT |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 9/19/2008 | 23:00 - 01:30 | 2.50 | TRP | 10 | TRIP IN HOLE FILL @ BHA AND 5,776 |
| | 01:30 - 02:00 | 0.50 | REAM | 1 | WASH FROM 5,776 TO 5,908-HOLE IS GOOD SHAPE 2' FILL |
| | 02:00 - 06:00 | 4.00 | DRL | 1 | DRILL FROM 5,908 TO 5,988 (ROP 20' HR) WOB 7.5, DHRPM 75, MW 9.4, VIS 45, BG GAS 65 |
| 9/20/2008 | 06:00 - 10:00 | 4.00 | DRL | 1 | DRILL FROM 5,988 TO 6,063 (ROP 18.8' HR) WOB 5-7, DHRPM 65, MW 9.4, VIS 32, BG GAS 31, HOLE SEEPING 4 BBL.S HR |
| | 10:00 - 11:00 | 1.00 | RIG | 1 | SERVICE RIG TOP DRIVE, BLOCKS, SWIVEL, DRAW TOOL, CROWN |
| | 11:00 - 18:00 | 7.00 | DRL | 1 | DRILL FROM 6,063 TO 6,240 (ROP 25.3' HR) WOB 5-8, DHRPM 85, MW 9.5, VIS 37, BG GAS 32, HOLE SEEPING 4 BBL.S HR |
| | 18:00 - 02:30 | 8.50 | DRL | 1 | DRILL FROM 6,240 TO 6,445 (ROP 24.1' HR) HOLE TOOK A 205 BBL DRINK @ 6239 LOST ALL RETURNS AND REGAIN AFTER PUMPING 10% LCM SWEEP 200 BBL.S HOLE IS SEEPING 15 BBL.S HR |
| | 02:30 - 03:00 | 0.50 | SUR | 1 | SURVEY @ 6403 1.5 DEG 148.9 AZ |
| 9/21/2008 | 03:00 - 06:00 | 3.00 | DRL | 1 | DRILL FROM 6,445 TO 6,518 (ROP 24.3' HR) WOB 7-9, DHRPM 85, MW 9.5, VIS 39, BG GAS 15, HOLE SEEPING 8 BBL.S HR |
| | 06:00 - 11:30 | 5.50 | DRL | 1 | DRILL FROM 6,518 TO 6,635 (ROP 21.3' HR) WOB 7-10 DHRPM 75, MW 9.5, VIS 38, BG GAS 16 HOLE SEEPING 6 BBL.S HR |
| | 11:30 - 12:30 | 1.00 | RIG | 1 | SERVICE RIG BLOCKS, SWIVEL, DRAWWORKS, TOP DRIVE |
| | 12:30 - 18:00 | 5.50 | DRL | 1 | DRILL FROM 6,635 TO 6,745 (ROP 20.0' HR) WOB 7-13 DHRPM 75-90, MW 9.5, VIS 40, BG GAS 38 HOLE SEEPING 4 BBL.S HR PUMPING 10 BBL. 10% LCM SWEEPS HRLY |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 6,745 TO 7,000 (ROP 21.3' HR) WORKING THE SAME PERAMETERS |
| 9/22/2008 | 06:00 - 12:00 | 6.00 | DRL | 1 | DRILL FROM 7,000 TO 7,110 (ROP 18.3' HR) WOB 13-15, DHRPM 90, MW 9.5, VIS 39, HOLE STARTED SEEPING 14 BBL.S HR @ 7,090 |
| | 12:00 - 12:30 | 0.50 | RIG | 1 | SERVICE RIG |
| | 12:30 - 14:00 | 1.50 | DRL | 1 | DRILL FROM 7,110 TO 7,135 (ROP 16.7' HR) WOB 15, DHRPM 90, MW 9.5, VIS 38 LOST DRILL PIPE SCREEN ON CONNECTION- SCREEN WENT DOWN DRILL PIPE |
| | 14:00 - 16:30 | 2.50 | TRP | 10 | TRIP OUT FOR BIT, 16 BBL.S OVER CALC. FILL |
| | 16:30 - 17:30 | 1.00 | TRP | 1 | LAY DOWN TORQUE BUSTER, BIT SUB, 2-DC'S, PICK UP NEW MOTOR AND BIT |
| 9/23/2008 | 17:30 - 20:30 | 3.00 | TRP | 10 | TRIP IN HOLE RABBETING PIPE LOOKING FOR DRILL PIPE SCREEN- FOUND IN SECOND HWDP FROM TOP- FILL @ BHA AND SHOE |
| | 20:30 - 21:30 | 1.00 | RIG | 6 | CUT AND SLIP 10 WRAPS OF DRILLING LINE |
| | 21:30 - 22:30 | 1.00 | TRP | 10 | TRIP IN OPEN HOLE |
| | 22:30 - 23:00 | 0.50 | REAM | 1 | WASH FROM 6952 TO 7135 (NO HOLE FILL) |
| | 23:00 - 06:00 | 7.00 | DRL | 1 | DRILL FROM 7,135 TO 7,317 (ROP 26' HR) WOB 7-8, DHRPM 145, MW 9.6, VIS 41, BGGAS 44 |
| 9/23/2008 | 06:00 - 11:00 | 5.00 | DRL | 1 | DRILL FROM 7,317 TO 7,430 (ROP 22.6' HR) WOB 7-9, DHRPM 145, MW 9.5, VIS 39, BG GAS 25 |
| | 11:00 - 12:00 | 1.00 | SUR | 1 | CIRCULATE AND SURVEY @ 7,370 1.6 DEG 159.7 AZ |
| | 12:00 - 16:00 | 4.00 | DRL | 1 | DRILL FROM 7,430 TO 7,525 (ROP 23.8' HR) WORK SAME PERRAMETERS |
| | 16:00 - 16:30 | 0.50 | RIG | 1 | SERVICE RIG AND TOP DRIVE |
| | 16:30 - 06:00 | 13.50 | DRL | 1 | DRILL FROM 7,525 TO 7,865 (ROP 25.2' HR) WOB 8-12, DHRPM 145, MW 9.5, VIS 38, BGGAS 27 ERATIC DRILLING @ 7538 BIT BOUNCE AND TORQUE SMOOTH 7,569 |
| 9/24/2008 | 06:00 - 10:30 | 4.50 | DRL | 1 | DRILL FROM 7,865 TO 8,003 (ROP 30.7' HR) WOB 14, DHRPM 145, MW 9.5, VIS 38, BG GAS 31 |
| | 10:30 - 11:30 | 1.00 | RIG | 1 | SERVICE RIG BLOCKS, DRAWWORKS, SWIVEL, TOP DRIVE |
| | 11:30 - 18:00 | 6.50 | DRL | 1 | DRILL FROM 8,003 TO 8,190 (ROP 26.7' HR) WOB 14, DHRPM 145, MW 9.5, 39, BG GAS 23, NO LOSSES |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 8,190 TO 8,400 (ROP 17.5' HR) WOB 14-18, DHRPM 145, MW 9.5, |

CONFIDENTIAL

Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20-8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|--|
| 9/24/2008 | 18:00 - 06:00 | 12.00 | DRL | 1 | NO LOSSES |
| 9/25/2008 | 06:00 - 09:30 | 3.50 | DRL | 1 | DRILL F/ 8400' TO 8479' (79' @ 23' P/HR) WOB 18/22 MUD WT 9.5 PPG VIS 36 W/ NO LOSSES |
| | 09:30 - 10:30 | 1.00 | CIRC | 1 | CIR BOTTOMS UP & WIRE LINE SURVEY 1* DEG. 152.3 AZI |
| | 10:30 - 15:00 | 4.50 | DRL | 1 | DRILL F/ 8479' TO 8573' (94' @ 21; P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 39 W/ NO LOSSES |
| | 15:00 - 15:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 15:30 - 18:00 | 2.50 | DRL | 1 | DRILL F/ 8573' TO 8628' (55' @ 22' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 39 W/ NO LOSSES |
| | 18:00 - 01:30 | 7.50 | DRL | 1 | DRILL F/ 8628' TO 8763' (135' @ 19' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 38 |
| | 01:30 - 02:00 | 0.50 | CIRC | 1 | CIR & CHANGE OUT LEAKING ROTATING RUBBER |
| | 02:00 - 06:00 | 4.00 | DRL | 1 | DRILL F/ 8763' TO 8859' (96' @ 24' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 40 |
| 9/26/2008 | 06:00 - 10:00 | 4.00 | DRL | 1 | DRILL F/ 8859' TO 8954' (95' @ 24' P/HR) WOB 18/22 MUD WT 9.6 PPG VIS 41 W/ NO LOSSES |
| | 10:00 - 10:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 10:30 - 14:30 | 4.00 | DRL | 1 | DRILL F/ 8954' TO 9046' (92' @ 23' P/HR) WOB 20/22 MUD WT 9.6 PPG VIS 40 |
| | 14:30 - 15:30 | 1.00 | CIRC | 1 | CIR. BOTTOMS UP & FLOW CHECK OK DROP SURVEY |
| | 15:30 - 18:00 | 2.50 | TRP | 2 | TRIP OUT OF HOLE |
| | 18:00 - 22:00 | 4.00 | ISP | 1 | INSPECT BHA & CHANGE OUT MUD MOTOR & BIT |
| | 22:00 - 04:30 | 6.50 | TRP | 2 | TRIP IN HOLE TO 8854' |
| | 04:30 - 05:00 | 0.50 | REAM | 1 | SAFETY WASH & REAM F/ 8854' TO BOTTOM @ 9046 W/ NO PROBLEMS OR FILL |
| 9/27/2008 | 05:00 - 06:00 | 1.00 | DRL | 1 | DRILL F/ 9046' TO 9066' (20' @ 20 P/HR) WOB 15/18 MUD WT 9.6 PPG VIS 41 |
| | 06:00 - 11:00 | 5.00 | DRL | 1 | DRILL F/ 9066' TO 9157' (91' @ 18.2 P/HR) WOB 18/25 MUD WT 9.8 PPG VIS 43 |
| | 11:00 - 11:30 | 0.50 | CIRC | 1 | FLOW CHECK - OK & PUMP PILL |
| | 11:30 - 15:00 | 3.50 | TRP | 2 | TOOH CHANGE MUD MOTOR & BIT |
| | 15:00 - 19:30 | 4.50 | TRP | 2 | TRIP IN HOLE |
| | 19:30 - 20:00 | 0.50 | REAM | 1 | SAFETY WASH & REAM F/ 8967' TO BOTTOM @ 9157' W/ NO FILL |
| | 20:00 - 06:00 | 10.00 | DRL | 1 | DRILL F/ 9157' TO 9415' (258' @ 26' P/HR) WOB 15/20 MUD WT 9.9 VIS 42 W/ NO LOSSES |
| 9/28/2008 | 06:00 - 11:30 | 5.50 | DRL | 1 | DRILL F/ 9415' TO 9528' (113' @ 21' P/HR) WOB 18/22 MUD WT 9.9 PPG VIS 41 |
| | 11:30 - 12:00 | 0.50 | RIG | 1 | RIG SERVICE |
| 9/29/2008 | 12:00 - 06:00 | 18.00 | DRL | 1 | DRILL F/ 9528' TO 9967' (439' (25' P/HR) WOB 18/22 MUD WT 10 PPG VIS 42 |
| | 06:00 - 09:00 | 3.00 | DRL | 1 | DRILL F/ 9967' TO 10057' (90' @ 30' P/HR) WOB 18/22 MUD WT 10.2 PPG VIS 41 |
| | 09:00 - 11:00 | 2.00 | CIRC | 2 | LOST PARTIAL RETURNS PUMP 50 BBLS 20% LCM PILL RE-GAIN RETURNS |
| | | | | | LOST TOTAL OF 240 BBLS |
| | 11:00 - 12:30 | 1.50 | DRL | 1 | DRILL F/ 10057' TO 10102' (45' @ 30' P/HR) WOB 18/22 MUD WT 10.2 PPG VIS 43 |
| | 12:30 - 13:00 | 0.50 | RIG | 1 | RIG SERVICE |
| | 13:00 - 21:00 | 8.00 | DRL | 1 | DRILL F/ 10102' TO 10311' (209' @ 26' P/HR) WOB 18/22 MUD WT 10.6 PPG VIS 42 (# 1 SCR DOWN UNABLE TO DRILL WITH ONE MUD PUMP) ELECTRICAN SHOULD BE ON LOCATION AROUND 0800 HRS) |
| | 21:00 - 01:00 | 4.00 | RIG | 2 | CIR. & CONDITION MUD PUMP ECD PILL |
| | 01:00 - 03:30 | 2.50 | RIG | 2 | TRIP TO CASING SHOE |
| | 03:30 - 06:00 | 2.50 | RIG | 2 | WAIT ON ELECTRICAN |
| 9/30/2008 | 06:00 - 15:30 | 9.50 | RIG | 2 | REPAIR # 1 SCR FOUND DAMAGED WIRE GOING TO RE-TRACTING MOTOR CAUSING GROUND FAULT REPAIRED RIH (STAGE CIR. OUT ECD PILL) |
| | 15:30 - 16:00 | 0.50 | RIG | 1 | RIG SERVICE |
| | 16:00 - 06:00 | 14.00 | DRL | 1 | DRILL F/ 10311' TO 10600' (289' @ 21' P/HR) WOB 20/25 MUD WT 11 PPG VIS 42 |
| 10/1/2008 | 06:00 - 08:00 | 2.00 | DRL | 1 | DRILL F/ 10600 TO 10614' (14' @ 7P/HR) WOB 18/26 MUD WT 11 PPG VIS 42 |
| | 08:00 - 09:30 | 1.50 | CIRC | 1 | CIR. BOTTOMS UP FLOW CHECK DROP SURVEY & PUMP ECD PILL |
| | 09:30 - 13:00 | 3.50 | TRP | 2 | TRIP OUT OF HOLE |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 10/1/2008 | 13:00 - 13:30 | 0.50 | TRP | 1 | CHANGE OUT MUD MOTOR & BIT |
| | 13:30 - 18:30 | 5.00 | TRP | 2 | TRIP IN HOLE TO 8255' |
| | 18:30 - 19:30 | 1.00 | REAM | 1 | TIGHT HOLE @ 10390' WASH & REAM THROUGH TIGHT SPOT & REAM TO BOTTOM @ 10614' |
| | 19:30 - 06:00 | 10.50 | DRL | 1 | DRILL F/ 10614' TO 10930' (316' @ 30' P/HR) WOB 18/24 MUD WT 11.1 PPG VIS 43 |
| 10/2/2008 | 06:00 - 11:30 | 5.50 | DRL | 1 | DRILL F/ 10930 TO 10982 (52' @ 9.6' P/HR) WOB 20/25 MUD WT 11.3 VIS 42 |
| | 11:30 - 12:30 | 1.00 | CIRC | 1 | CIR. BOTTOMS UP & PUMP ECD PILL |
| | 12:30 - 18:00 | 5.50 | TRP | 2 | TOOH |
| | 18:00 - 19:30 | 1.50 | TRP | 1 | LAY DOWN MUD MOTOR & PICK UP TORQUE BUSTER & NEW BIT |
| | 19:30 - 22:30 | 3.00 | TRP | 2 | TIH TO SHOE |
| | 22:30 - 00:00 | 1.50 | RIG | 6 | CUT & SLIP DRILL LINE |
| | 00:00 - 03:00 | 3.00 | RIG | 2 | REPAIR LEAK ON DRAWWORKS (REPLACE COOLANT HOSE) |
| | 03:00 - 05:00 | 2.00 | TRP | 2 | TRIP IN HOLE TO 10120 |
| | 05:00 - 06:00 | 1.00 | CIRC | 1 | CIR OUT ECD PILL |
| 10/3/2008 | 06:00 - 06:30 | 0.50 | DRL | 1 | TRIP IN HOLE TO 10712' |
| | 06:30 - 07:30 | 1.00 | REAM | 1 | WASH & REAM (TIGHT HOLE @ 10745) REAM THROUGH TIGHT SPOT THREE TIMES & CONTINUE TO REAM TO BOTTOMS W/ NO MORE HOLE PROBLEMS |
| | 07:30 - 03:30 | 20.00 | DRL | 1 | DRILL F/ 10982' TO 11295' (313' @ 16' P/HR) |
| | 03:30 - 04:30 | 1.00 | RIG | 1 | RIG SERVICE |
| 10/4/2008 | 04:30 - 05:30 | 1.00 | CIRC | 1 | CIR. & PUMP ECD PILL & DROP SURVEY |
| | 05:30 - 06:00 | 0.50 | TRP | 2 | TRIP OUT OF HOLE |
| | 06:00 - 09:30 | 3.50 | TRP | 2 | TRIP OUT OF HOLE |
| | 09:30 - 10:30 | 1.00 | TRP | 1 | LAY DOWN TORQUE BUSTER & BIT PICK UP NEW BIT W/ MUD MOTOR |
| | 10:30 - 15:30 | 5.00 | TRP | 2 | TRIP IN HOLE TO 10645 |
| | 15:30 - 16:30 | 1.00 | CIRC | 1 | CIR OUT ECD PILL @ 10645 |
| | 16:30 - 17:00 | 0.50 | TRP | 2 | TRIP IN HOLE TO 11085 |
| | 17:00 - 17:30 | 0.50 | REAM | 1 | WASH & REAM F/ 11085' TO BOTTOM @ 11295 W/ NO HOLE PROBLEMS |
| | 17:30 - 06:00 | 12.50 | DRL | 1 | DRILL F/ 11295 TO 11615' (320' @ 26' P/HR) WOB 18/22 MUD WT 11.9 PPG VIS 45 W/ 22 BBLs P/HR LOSSES |
| 10/5/2008 | 06:00 - 08:00 | 2.00 | DRL | 1 | DRILL F/ 11615' TO 11631 |
| | 08:00 - 09:00 | 1.00 | DRL | 1 | RIG SERVICE |
| | 09:00 - 20:30 | 11.50 | DRL | 1 | DRILL 11631' TO 11812' (181' @ 15.8' P/HR) WOB 15/25 MUD WT 12.3 PPG VIS 45 LOST RETURNS @ 11812' |
| | 20:30 - 23:00 | 2.50 | CIRC | 2 | CIR. & PUMP LCM PILLS SPOT 30% LCM PILL |
| 10/6/2008 | 23:00 - 00:30 | 1.50 | TRP | 2 | PULL OUT OF HOLE ABOVE LCM PILL |
| | 00:30 - 05:00 | 4.50 | CIRC | 6 | BUILD MUD VOLUME |
| | 05:00 - 05:30 | 0.50 | TRP | 2 | TRIP IN HOL TO BOTTOM |
| | 05:30 - 06:00 | 0.50 | CIRC | 2 | CIR BOTTOMS UP & CHECK FOR LOSSES |
| | 06:00 - 07:00 | 1.00 | CIRC | 1 | CIR. BOTTOMS UP & CHECK FOR LOSSES (WELL STATIC) |
| | 07:00 - 10:00 | 3.00 | DRL | 1 | DRILL F/ 11812' TO 11837' (25' @ 8.3' P/HR) WOB 25/28 MUD WT 12.1VIS 45 |
| | 10:00 - 12:00 | 2.00 | CIRC | 1 | CIR & MIX & PUMP ECD PILL DROP SURVEY |
| | 12:00 - 17:00 | 5.00 | TRP | 2 | TRIP OUT OF HOLE |
| | 17:00 - 18:00 | 1.00 | RIG | 1 | RIG SERVICE & CHANGE OUT SAVER SUB |
| | 18:00 - 19:00 | 1.00 | TRP | 1 | BREAK OUT BIT & C/O BIT & MUD MOTOR |
| | 19:00 - 23:30 | 4.50 | TRP | 2 | TRIP IN HOLE TO 10296' |
| | 23:30 - 00:30 | 1.00 | CIRC | 1 | ATTEMPT TO CIR OUT ECD PILL HALF WAY LOST RETURNS (TOP OF ECD PILL @ 5560') |
| 10/7/2008 | 00:30 - 06:00 | 5.50 | CIRC | 2 | MIX & PUMP 30% LCM PILLS & ATT. TO EST. RETURNS PUMP DRY SLUG RE-GAIN RETURNS CONTINUE TO PUMP OUT ECD PILL |
| | 06:00 - 08:00 | 2.00 | TRP | 2 | TRIP OUT OF HOLE TO CASING SHOE |
| | 08:00 - 11:00 | 3.00 | CIRC | 2 | CIR. & MIX PUMP LCM PILLS CIR. OUT ECD PILL |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 10/7/2008 | 11:00 - 11:30 | 0.50 | TRP | 2 | TRIP IN HOLE 5 STANDS |
| | 11:30 - 12:00 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP |
| | 12:00 - 12:30 | 0.50 | TRP | 2 | TRIP IN HOLE 5 STANDS |
| | 12:30 - 13:30 | 1.00 | CIRC | 2 | CIR. BOTTOMS UP W/ NO LOSSES |
| | 13:30 - 14:00 | 0.50 | TRP | 2 | TRIP IN HOLE 12 STANDS |
| | 14:00 - 15:30 | 1.50 | CIRC | 2 | CIR. BOTTOMS UP W/ NO LOSSES |
| | 15:30 - 16:00 | 0.50 | TRP | 2 | TRIP IN HOLE 12 STANDS |
| | 16:00 - 18:00 | 2.00 | CIRC | 1 | CIR. BOTTOMS UP W/ NO LOSSES |
| | 18:00 - 18:30 | 0.50 | TRP | 2 | TRIP IN HOLE 14 STANDS |
| | 18:30 - 19:30 | 1.00 | CIRC | 1 | CIR BOTTOMS UP |
| | 19:30 - 21:00 | 1.50 | TRP | 2 | TRIP IN HOLE |
| | 21:00 - 22:00 | 1.00 | CIRC | 1 | CIR BOTTOMS UP |
| | 22:00 - 23:30 | 1.50 | TRP | 2 | TRIP IN HOLE 2 STANDS (TAG RESISTANCE @ 11412') |
| | 23:30 - 00:30 | 1.00 | REAM | 1 | WASH & REAM F/ 11412 TO 11837 |
| 10/8/2008 | 00:30 - 06:00 | 5.50 | DRL | 1 | DRILL F/ 11837 TO 11930 (93' @ 16.9' P/HR) WOB 15/22 MUD WT 12.1 VIS 44 W/ NO LOSSES |
| | 06:00 - 11:30 | 5.50 | DRL | 1 | DRILL F/ 11930' TO 12002' (72' @ 14' P/HR) WOB 20/25 MUD WT 12.1 PPG VIS 44 W/ NO LOSSES |
| | 11:30 - 14:00 | 2.50 | CIRC | 1 | CIR. HOLE CLEAN |
| | 14:00 - 15:00 | 1.00 | TRP | 2 | SHORT TRIP |
| | 15:00 - 18:30 | 3.50 | CIRC | 1 | CIR. & CONDITION MUD FOR LOGGING & DROP SURVEY & PUMP ECD PILL |
| | 18:30 - 00:00 | 5.50 | TRP | 2 | TRIP IN HOLE (SLM) NO CORECTION |
| 10/9/2008 | 00:00 - 06:00 | 6.00 | LOG | 1 | SAFETY MEETING & RUN OPEN HOLE LOGS (TAG RESISTANCE @ 7345' PULL MAX. TO GET FREE POH & R/D SCH.) |
| | 06:00 - 06:30 | 0.50 | OTH | | CHANGE OUT ROTATING HEAD FOR LOGGING |
| | 06:30 - 09:30 | 3.00 | TRP | 15 | TRIP IN HOLE TO CASING SHOE |
| | 09:30 - 11:00 | 1.50 | RIG | 6 | CUT AND SLIP DRILLING LINE |
| | 11:00 - 12:00 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP @ SHOE |
| | 12:00 - 18:00 | 6.00 | TRP | 15 | TRIP IN HOLE STAGING IN EVERY 20 STANDS CIRCULATING HIGH VIS SWEEPS |
| | 18:00 - 19:30 | 1.50 | REAM | 1 | WASH AND REAM FROM 11,482 TO 12002 HIT BRIDGES @ 11,482 TO 11,500 AND 11,710 TO 11,725 |
| | 19:30 - 22:00 | 2.50 | CIRC | 1 | CIRCULATE BOTTOMS UP AND HIGH VIS SWEEP OUT OF HOLE |
| | 22:00 - 02:30 | 4.50 | TRP | 2 | TRIP OUT OF HOLE TO RUN LOGS—SLICK NO BOW SPRINGS AND CENTERLIZERS |
| | 02:30 - 06:00 | 3.50 | LOG | 1 | RUN LOGS WITH NO BOW SPRINGS, CENTRILIZERS—SLICK TAGGED UP @ 7,350— RAN INTO LEDGE 6 TIMES- COUDN'T GET PAST, HIT BRIDGES GOING IN @ 5,487 X 3, 5,532, 5,649, 5,719, 5,840, 6,893, 7,345 X 2, 7339 X 4 STARTED PULLING TIGHT COMING OUT OF HOLE |
| 10/10/2008 | 06:00 - 07:00 | 1.00 | LOG | 1 | RIG DOWN LOGGERS |
| | 07:00 - 09:30 | 2.50 | TRP | 15 | TRIP IN HOLE TO SHOE |
| | 09:30 - 10:30 | 1.00 | CIRC | 1 | CIRCULATE BOTTOM S UP @ SHOE |
| | 10:30 - 17:30 | 7.00 | TRP | 15 | STAGE IN HOLE TO BOTTOM TAGGED @ 7,345, 7,428, 8,903, 9,375, 10,062, 10,785, 11,770 |
| | 17:30 - 20:00 | 2.50 | CIRC | 1 | CIRCULATE HIGH VIS SWEEP AROUND, MUD PROPERTIES IN ORDER MW 12.1+ VIS 48, BG GAS 1746 AND RIG UP L/D TRUCK, |
| | 20:00 - 23:00 | 3.00 | TRP | 2 | TRIP OUT OF HOLE TO LAY DOWN DRILL PIPE |
| | 23:00 - 23:30 | 0.50 | TRP | 3 | HELD SAFETY MEETING AND RIG UP L/D POLE |
| | 23:30 - 02:30 | 3.00 | TRP | 3 | LAY DOWN 5" DRILL PIPE |
| | 02:30 - 04:00 | 1.50 | TRP | 2 | TRIP PIPE OUT OF DERRICK IN TO HOLE |
| | 04:00 - 06:00 | 2.00 | TRP | 3 | LAY DOWN 5" DRILL PIPE |
| 10/11/2008 | 06:00 - 07:00 | 1.00 | TRP | 3 | LAY DOWN 5" DRILL PIPE |
| | 07:00 - 07:30 | 0.50 | TRP | 2 | TRIP IN HOLE WITH LAST 1,000' PIPE IN DERRICK |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 10/11/2008 | 07:30 - 10:00 | 2.50 | TRP | 1 | LAY DOWN 5" DRILL PIPE AND BHA |
| | 10:00 - 10:30 | 0.50 | OTH | | PULL WEAR BUSHING |
| | 10:30 - 12:00 | 1.50 | CSG | 1 | RIG UP CASING CREW |
| | 12:00 - 12:30 | 0.50 | CSG | 2 | MAKE UP FLOAT SHOE AND COLLAR PUMP THRU |
| | 12:30 - 13:00 | 0.50 | OTH | | FIX RATS NEST IN DRILLING LINE (HANG BLOCKS) |
| | 13:00 - 01:00 | 12.00 | CSG | 2 | RUN 7" CASING BREAK CIRCULATION EVERY 25 JT'S AND CIR BOTTOMS UP @ SHOE (5458), 8220, 10462 (LOST RETURNS) |
| | 01:00 - 06:00 | 5.00 | CIRC | 2 | PUMP THRU FLOAT EQUIPMENT 2-2 1/2 BBL.S MIN, PUMP 18% LCM SWEEP TO REGAIN RETURNS (WAITING ON HALLIBURTON TO PUMP CEMENT-CREW ON RIG SST 66) |
| 10/12/2008 | 06:00 - 13:00 | 7.00 | CIRC | 1 | CIRCULATE BUILD VOLUME AND WAIT ON HALLIBURTON. |
| | 13:00 - 15:00 | 2.00 | DEQ | 4 | ATTEMPT TO SET PACK OFF. FLUTEED HANGER WOULD NOT DRAIN AND FLUID WOULD NO ALLOW PACK OFF ASSEMBLY TO SET. HYDRO LOCKED. CAMERON SAID IT IS A PROBLEM WITH ENGINEERING AND NEEDS TO BE CORRECTED. AND NEEDED TO BE PICKED UP TO LET FLUID OFF BACK SIDE WHERE PACK OFF GOES |
| | 15:00 - 16:00 | 1.00 | RIG | 1 | SERVICE RIG, TOP DRIVE, BLOCKS, SWIVEL |
| | 16:00 - 17:00 | 1.00 | OTH | | RIG UP ELEVATORS AND PICK UP LADING JT. TO RELEASE WATTER OFF BACK SIDE, SUCKED OUT CASING AND SIDES WITH VACUMM SO IT WOULDN'T FILL BACK IN |
| | 17:00 - 20:00 | 3.00 | DEQ | 4 | SET IN SEAL ASSEMBLY AND TEST TO 7,150 PSI, SET IN CEMENT ISOLATION TOOL |
| | 20:00 - 22:00 | 2.00 | CMT | 1 | HELD SAFETY MEETING AND RIG UP HALLIBURTON ON "B" SECTION AND CEMENT HEAD ATTEMPT TO CIRCULATE (NO CIRCULATION) |
| | 22:00 - 02:00 | 4.00 | CMT | 2 | PUMP 10 BBL.S OF 10% CACL WATER, 10 BBL. FRESH WATER, 25 BBL.S SUPER FLUSH, 10 BBL FRESH WATER, 10 BBL. 10% CACL WATER, 10 BBL.S FRESH WATER, 25 BBL.S SUPERFLUSH, 10 BBL.S FRESH WATER, PUMP 50 BBL.S 7 PPG SCAVENGER CEMENT, 1ST LEAD 110 BBL.S 8.5 PPG CEMENT, 2 ND LEAD 167 BBL.S 10 PPG CEMENT, TAIL 48 BBL.S 14.3 PPG CEMENT, DIS PLACED WITH 14.3+ OBM |
| | 02:00 - 04:00 | 2.00 | CMT | 1 | WASH UP CEMENT PUMPS AND RIG DOWN CEMENTERS |
| | 04:00 - 05:00 | 1.00 | OTH | | CHANGE SAVE SUB AND MOUSE HOLE. |
| | 05:00 - 06:00 | 1.00 | BOP | 2 | TEST BOP. |
| 10/13/2008 | 06:00 - 15:00 | 9.00 | BOP | 2 | TEST BOPE (IBOP VALVE ON TOP DRIVE DIDN'T TEST UNIT HAD WRONG VALVE ON LOCATION) TO 10,000 PSI HIGH AND 250 PSI LOW UPPER/ LOWER PIPE RAMS, BLIND RAMS, CHOKE MANIFOLD, HCR VALVE, WING VALVES, 5000 PSI HIGH AND 250 LOW ANNULAR, 1500 PSI CASING TEST—CHANGED OUT BLADDER IN #1 MUD PUMP |
| | 15:00 - 16:00 | 1.00 | RIG | 1 | SERVICE RIG TOP DRIVE, BLOCKS, SWIVEL |
| | 16:00 - 17:00 | 1.00 | OTH | | SET IN WEAR BUSHING |
| | 17:00 - 18:00 | 1.00 | OTH | | CHANGE TO HIGH PRESSURE ROT HEAD |
| 10/14/2008 | 18:00 - 01:30 | 7.50 | TRP | 1 | RIG UP LAY DOWN TRUCK TO PICK UP 4" BHA AND DRILL PIPE TO 6112'. |
| | 01:30 - 02:30 | 1.00 | OTH | | LOAD PIPE RACKS AND MEASURE DRILL PIPE. |
| | 02:30 - 06:00 | 3.50 | TRP | 1 | CONTINUE TO PICK UP DRILL PIPE FROM 6112' TO |
| | 06:00 - 08:00 | 2.00 | TRP | 1 | PICK UP 4" DRILL PIPE |
| | 08:00 - 09:00 | 1.00 | DRL | 4 | DRILL OUT PLUG/FLOAT TAGGED @ 11,869 |
| | 09:00 - 10:30 | 1.50 | OTH | | CHANGE SWIVEL PACKING— |
| | 10:30 - 11:00 | 0.50 | DRL | 4 | DRILL OUT SHOE TRACK WITH 14.0# OBM |
| | 11:00 - 15:30 | 4.50 | DRL | 1 | DRILL FROM 12,002 TO 12,052 (ROP 11.1' HR) WOB 5-10, DHRPM 120, MW 14.0, BG GAS 150UNITS, WELL SEEPING 20 BBL.S HR, CUT MW BACK TO 13.5 PPG HOLE STILL SEEPING |
| | 15:30 - 17:00 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP AND SPOT ECD AND LCM PILL ON BOTTOM |
| | 17:00 - 18:30 | 1.50 | TRP | 2 | TRIP OUT OF HOLE TO RUN CEMENT BOND LOG, |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 10/14/2008 | 18:30 - 19:00 | 0.50 | CIRC | 1 | CHECK FLOW, WELL FLOWING CIRCULATE BOTTOMS UP, WELL STATIC AFTER |
| | 19:00 - 23:30 | 4.50 | TRP | 2 | TRIP OUT TO RUN CBL LOG. |
| | 23:30 - 00:00 | 0.50 | LOG | 4 | INSTALL WIRE LINE LUBRACATOR. |
| 10/15/2008 | 00:00 - 06:00 | 6.00 | LOG | 4 | PRE JOB SAFETY MEEETING: RIG UP AND RUN CBL LOG. |
| | 06:00 - 07:30 | 1.50 | LOG | 4 | RIG DOWN SCHLUMBERGER CBL RUN. |
| | 07:30 - 11:00 | 3.50 | TRP | 2 | TRIP IN HOLE OPEN ENDED TO SQUEEZE CEMENT |
| | 11:00 - 12:30 | 1.50 | RIG | 6 | CUT AND SLIP DRILLING LINE |
| | 12:30 - 15:00 | 2.50 | TRP | 2 | PICK UP SINGLES WITH TUGGER -BHA LEFT IN DERRICK FOR SQUEEZE JOB |
| | 15:00 - 16:00 | 1.00 | RIG | 1 | SERVICE RIG-WORK ON COMPENSATORS-CHARGED |
| | 16:00 - 06:00 | 14.00 | CIRC | 1 | CIRCULATE AND TAG BOTTOM WITH MW 13.6 PPG |
| 10/16/2008 | 06:00 - 08:30 | 2.50 | CMT | 4 | SAFETY MEETING: SET CEMENT PLUG PUMP 13 BBL.S TUNED SPACER, 24 1/2 BBL.S OF SQUEEZE CEMENT, PUMP 6 1/2 BBL.S TUNED SPACER, DIS PLACE WITH OBM (TOTAL OF 111 BBL.S)TEST COMPRESSIVE STREATH 8 HR 1300 PSI, 12HR 1389 PSI, 24HR 1500PSI |
| | 08:30 - 09:00 | 0.50 | TRP | 2 | PULL 15 STANDS OF DRILL PIPE |
| | 09:00 - 10:00 | 1.00 | CIRC | 1 | CIRCULATE DRILL STRING, BOTTOMS UP |
| | 10:00 - 11:30 | 1.50 | CMT | 3 | SQUEEZE CEMENT PRESSURE UP IN STEPS 150PSI, 250PSI, 350 PSI, 450PSI, 500PSI--HELD 524 PSI FOR ONE HR BLEED OFF PRESSURE, PRESSURED BACK UP ON SQUEEZE HELD GOOD |
| | 11:30 - 12:30 | 1.00 | CMT | 1 | RIG DOWN CEMENT EQUIPMENT |
| | 12:30 - 16:30 | 4.00 | TRP | 2 | PUMP TRIP SLUG TRIP OUT OF HOLE |
| | 16:30 - 17:00 | 0.50 | OTH | | PUMP DOWN BACK SIDE TO SEE IF WOULD PRESSURE UP, PUMP 17 BBL.S AND HAD NO PRESSURE (WHEN OPENED THE VALVES WELL WAS ON VACUUM) |
| | 17:00 - 18:00 | 1.00 | RIG | 1 | SERVICE RIG, TOP DRIVE--CHANGE OUT DOUBLE BALL VALVE--LEAKING OBM WHEN TRIPPING |
| | 18:00 - 19:00 | 1.00 | RIG | 2 | CHANGE OUT WASHED OUT DOUBLE BALL VALVE |
| | 19:00 - 20:00 | 1.00 | TRP | 2 | TRIP IN HOLE WITH BHA--FOUND BROKEN EAR ON BALE LINK TILT (NEEDED WELDED) |
| | 20:00 - 20:30 | 0.50 | RIG | 2 | WELD BALE LINK TILT |
| | 20:30 - 01:00 | 4.50 | TRP | 2 | TRIP IN HOLE FILL PIPE EVERY 4,000' |
| | 01:00 - 02:30 | 1.50 | DRL | 4 | DRILL LOST CIRCULATION CEMENT PLUG TO 11,952 |
| | 02:30 - 06:00 | 3.50 | CIRC | 1 | CIRCULATE SAMPLES OF CEMENT UP- GRANULATED-NON FIRM (PUDDY)-SANDY CEMENT @ 11,952 |
| | 06:00 - 07:00 | 1.00 | CIRC | 1 | CIRCULATE AND WAIT ON ORDERS FROM DENVER TO DRILL OUT OF SHOE |
| | 07:00 - 08:00 | 1.00 | RIG | 1 | SERVICE RIG AND TOP DRIVE, BLOCK SWIVEL, CROWN |
| | 08:00 - 09:00 | 1.00 | DRL | 5 | DRILL OUT FROM 11,493 TO 12,052--CEMENT SOFT DIDN'T TAKE ANY WEIGHT TO DRILL |
| 10/17/2008 | 09:00 - 09:30 | 0.50 | DRL | 1 | DRILL FROM 12,052 TO 12,060 |
| | 09:30 - 10:30 | 1.00 | EQT | 2 | CIRCULATE AND TEST FORMATION MW13.6 + 260 PSI =EMW 14.0 |
| | 10:30 - 18:00 | 7.50 | DRL | 1 | DRILL FROM 12,060 TO 12,220 (ROP 21.3' HR) WOB 12-13, DHRPM 160, BG GAS 130, PUMPING LCM SWEEPS EVERY HR FOR SEEPAGE |
| | 18:00 - 03:30 | 9.50 | DRL | 1 | DRILL FROM 12,220 TO 12,324 (ROP 10.9' HR) WOB 10-16, DHRPM 160, BG GAS 350 UNITS VENTED TO BUSTER, |
| | 03:30 - 04:00 | 0.50 | SUR | 1 | DROP SURVEY AND CHECK FOR FLOW-NO FLOW |
| | 04:00 - 05:00 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP AND SPOT ECD SLUG (25 BBL.S 14.5 PPG) |
| | 05:00 - 06:00 | 1.00 | TRP | 10 | TRIP OUT FOR BIT |
| | 06:00 - 10:00 | 4.00 | TRP | 10 | TRIP OUT OF HOLE FOR BIT SURVEY @ 12,259 4.6 DEG 161 AZ |
| | 10:00 - 11:00 | 1.00 | TRP | 1 | LAY DOWN MOTOR AND BIT, PICK UP MOTOR, BIT 2-XOVERS, IBS--CLEAN RIG FLOOR FOR TRIP IN HOLE |
| | 11:00 - 17:00 | 6.00 | TRP | 10 | TRIP IN HOLE FILL @ BHA AND EVERY 44 STANDS OF DRILL PIPE |
| 10/18/2008 | 17:00 - 17:30 | 0.50 | REAM | 1 | WASH FROM 12,153 TO 12,321 (NO HOLE FILL) |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|--|
| 10/18/2008 | 17:30 - 21:30 | 4.00 | DRL | 1 | DRILL FROM 12,321 TO 12,376 (ROP 13.75' HR) |
| | 21:30 - 06:00 | 8.50 | RIG | 2 | REPAIR RIG SCR #2 & #1 NOT WORKING AND TOP DRIVE HOUSE BREAKER WOULDN'T KICK IN |
| 10/19/2008 | 06:00 - 06:00 | 24.00 | RIG | 2 | CHANGE OUT 6 FUSES AND 6 PUCK'S IN SCR1 (4) AND SCR2 (2) WAS FIXED @ 9:00AM, CHANGED OUT BREAKERS IN SCR HOUSE FOR TOP DRIVE HOUSE-DIDN'T FIX PROBLEM-FOUND "B" MODULE IN TOP DRIVE SCR BURNT - SENDING MODULE OUT OF HOUSTON TO GRAND JUNCTION SHOULD BE IN GRAND JUNCTION @ 7:00 AM CIRCULATING @ SHOE |
| 10/20/2008 | 06:00 - 12:30 | 6.50 | RIG | 2 | CHANGED OUT MUDULE "B" IN TOP DRIVE SCR HOUSE ALL PARTS SHOWED UP ON LOCATION @ 9:20 A.M. HAD TO BUILD MODULE ON LOCATION AND PUT IN SCR |
| | 12:30 - 13:00 | 0.50 | RIG | 2 | TRIP IN TO START DRILLING |
| | 13:00 - 18:00 | 5.00 | DRL | 1 | DRILL FROM 12,376 TO 12,450 (ROP 14.8' HR) WOB 8-10, DHRPM 118, MW 13.6, VIS 45, BG GAS 300 UNITS |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 12,450 TO 12,710 (ROP 21.6' HR) WOB 10-11, DHRPM 120, MW 13.7, VIS 44, BG GAS 300 UNITS HOLE SEEPING 2 BBL.S HR PUMPING 10 BBL 20% LCM SWEEPS HRLY |
| 10/21/2008 | 06:00 - 10:30 | 4.50 | DRL | 1 | DRILLING FROM 12,710 TO 12,820 (ROP 24.4' HR) WOB 11, DHRPM 120, MW 13.8, BG GAS 300 UNITS, NO FLARE |
| | 10:30 - 11:00 | 0.50 | RIG | 1 | SERVICE RIG, TOP DRIVE, BLOCKS, SWIVEL, CROWN |
| | 11:00 - 18:00 | 7.00 | DRL | 1 | DRILL FROM 12,820 TO 12,940 (ROP 17.1' HR) WOB 11, DHRPM 115, MW 13.9, VIS 43, BG GAS 5500 UNITS NO FLARE, FLOWING 1 1/2" STREAM ON CONNECTION |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 12,940 TO 13,175 (ROP 19.6' HR) WOB 11-13, DHRPM 115, MW 14.2, VIS 45, BG GAS 1800 UNITS NO FLARE |
| 10/22/2008 | 06:00 - 10:00 | 4.00 | DRL | 1 | DRILL FROM 13,175 TO 13,297 (ROP |
| | 10:00 - 10:30 | 0.50 | RIG | 1 | RIG SERVICE, TOP DRIVE, BLOCKS, SWIVEL |
| | 10:30 - 12:00 | 1.50 | DRL | 1 | DRILL FROM 13,297 TO 13,311 (ROP |
| | 12:00 - 06:00 | 18.00 | RIG | 2 | TOP DRIVE SCR HOUSE MODULE "A" AND "B" BURNT UP, SCR BAY #2 BURNT TO PUCKS(SAME ONES AS ON 10/18/2008)-WAS RUNNING #1PUMP ON SCR #2-- TRIP TO SHOE AND CIRCULATE WITH #2 PUMP |
| 10/23/2008 | 06:00 - 18:00 | 12.00 | RIG | 2 | CHANGE OUT IGBT ON TOP DRIVE UNIT DRIVE A AND B. CHANGE OUT DC MODULE, PUCKS AND BUSE FUSES IN SCR BAY #1 |
| | 18:00 - 23:30 | 5.50 | RIG | 2 | WAITING ON TESCO TOP DRIVE TECHNICIAN |
| | 23:30 - 04:00 | 4.50 | RIG | 2 | TESTED TOP DRIVE BURNED AND REPLACED IGBT AND CIRCUIT BOARD ON DRIVE A |
| 10/24/2008 | 04:00 - 06:00 | 2.00 | RIG | 2 | TEST RUN TOP DRIVE, SCR BAYS, MUD PUMPS |
| | 06:00 - 12:30 | 6.50 | RIG | 2 | CONT. TO TROUBLE SHOOT SCR PORBLEMS WITH UNIT ELECTRICANS (FOUND # 1 MODULE BAD) CAUSING TRACTION MOTORS TO RUN HOT) |
| | 12:30 - 13:00 | 0.50 | RIG | 2 | TRIP IN HOLE F/ CASING SHOE TO BOTTOM @ 13311 W/ NO HOLE PROBLEMS |
| | 13:00 - 16:00 | 3.00 | CIRC | 1 | CIR. & CONDITION HOLE |
| | 16:00 - 19:00 | 3.00 | CMT | 2 | HELD SAFETY MEETING W/ HAL. & RIG CREW CARRY OUT CAP CEMENT JOB PUMP 4 BBL.S WATER AHEAD & 210 BBL.S CMT @ 13.6 PPG & FLUSH LINES W/ 3 BBL.S WATER (CIR. RATE @ 2 BBL.S W/ 540 PSI CIR. PSI.) THE LAST 22 BBL.S CIR. PSI INCREASE TO 750 PSI) |
| | 19:00 - 20:00 | 1.00 | CIRC | 1 | DROP SURVEY & PUMP ECD PILL TOTAL 80 BBL.S |
| | 20:00 - 02:00 | 6.00 | TRP | 10 | POOH FOR BIT HOLE IN GOOD CONDITION |
| | 02:00 - 03:00 | 1.00 | TRP | 1 | LAY DOWN BIT, MUD MOTOR, IBS SUB PICK UP NEW MUD MOTOR, BIT. SURVEY @ 13260 INC. 2.7" |
| | 03:00 - 05:00 | 2.00 | TRP | 10 | TIH W/BIT MM, WEIGHT PIPE, SURFACE TEST MM. PRESSURED UP TO 2000 BLED OFF SLOWLY |
| | 05:00 - 06:00 | 1.00 | TRP | 13 | POOH DUE TO FAILED SURFACE TEST ON MUD MOTOR |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 10/25/2008 | 06:00 - 08:30 | 2.50 | TRP | 12 | LAY DOWN MUD MOTOR PLUGGED WITH LCM |
| | 08:30 - 15:00 | 6.50 | TRP | 12 | TRIP IN WITH .26 MUD MOTOR TO SHOE |
| | 15:00 - 16:30 | 1.50 | RIG | 6 | SLIP AND CUT DRILLING LINE |
| | 16:30 - 17:00 | 0.50 | TRP | 2 | TRIP IN 7 STDS TO 12615' |
| | 17:00 - 18:30 | 1.50 | CIRC | 1 | CIRCULATE HALF OF ECD PILL OUT |
| | 18:30 - 06:00 | 11.50 | RIG | 2 | RIG SCR #2 BLEW FUSES, TOP DRIVE SCR BANK #2 REPLACE IGBT WAIT ON TOP DRIVE TECH FROM HOUSTON, POSSIBBLE TECH FOR SCR UNIT NO ROTATION ON TOP DRIVE |
| 10/26/2008 | 06:00 - 06:00 | 24.00 | RIG | 2 | OMROM TECH AND TOPDRIVE TECH ON LOCATION, INSPECT SCR #2, MAIN BREAKER PANEL BAD ORDERED PARTS, SUPPOSE TO BE IN SUNDAY AM |
| 10/27/2008 | 06:00 - 06:00 | 24.00 | RIG | 2 | PARTS ARRIVED AT 0130, CHANGE OUT BRIDGE ON SCR 2, TOP DRIVE HAD 16 PINCONNECTOR WITH LOOSE PIN GOING TO BUS BOARD ON DRIVE A |
| 10/28/2008 | 06:00 - 08:00 | 2.00 | RIG | 2 | REPAIR #2 SCR LOAD TEST |
| | 08:00 - 09:00 | 1.00 | CIRC | 1 | TRIP IN CIRCULATE ECD PILL OUT |
| | 09:00 - 15:30 | 6.50 | DRL | 1 | DRILL F/13311' TO 13701' WOB 12, DHRPM 110, 230 GPM |
| | 15:30 - 16:00 | 0.50 | RIG | 1 | RIG SERVICE |
| 10/29/2008 | 16:00 - 06:00 | 14.00 | DRL | 1 | DRILL F/13701' TO 14176' WOB 12, DHRPM 110, 230 GPM |
| | 06:00 - 14:00 | 8.00 | DRL | 1 | DRILL F/14176' TO 14525' WOB 12/14, DHRPM 110, 230 GPM .26 MM |
| | 14:00 - 14:30 | 0.50 | RIG | 1 | RIG SERVICE |
| 10/30/2008 | 14:30 - 06:00 | 15.50 | DRL | 1 | DRILL F/14525' TO 15265' WOB 12/14, DHRPM 110, 210 GPM |
| | 06:00 - 12:30 | 6.50 | DRL | 1 | DRILL F/15265' TO 15578' WOB 14, DHRPM 110, GPM 230, MM .26 |
| | 12:30 - 13:30 | 1.00 | RIG | 1 | RIG SERVICE, CHANGE OIL IN TOP DRIVE |
| 10/31/2008 | 13:30 - 06:00 | 16.50 | DRL | 1 | DRILL F/15578' TO 16260' WOB 15, DHRPM 90, GPM 210 |
| | 06:00 - 12:30 | 6.50 | DRL | 1 | DRILL F/16260' TO 16532' WOB 15, DHRPM 90, 210 GPM |
| | 12:30 - 13:30 | 1.00 | RIG | 1 | RIG SERVICE |
| | 13:30 - 19:00 | 5.50 | DRL | 1 | DRILL F/16532' TO 16761' WOB 17, DHRPM 90, 210 GPM |
| | 19:00 - 20:30 | 1.50 | TRP | 10 | DROP SURVEY, PUMP DRY PIPE PILL PULL 10 STDS FLOW CHECK |
| | 20:30 - 21:00 | 0.50 | TRP | 10 | WELL FLOWING TRIP BACK TO BOTTOM |
| 11/1/2008 | 21:00 - 00:00 | 3.00 | CIRC | 1 | CIRCULATE GAS OUT, PUMP ECD PILL |
| | 00:00 - | | TRP | 10 | TRIP OUT BIT #18 |
| | 06:00 - 07:00 | 1.00 | TRP | 10 | TRIP OUT BIT #18 |
| | 07:00 - 08:00 | 1.00 | TRP | 1 | LAY DOWN MUD MOTOR AND BIT, PICK UP TORQUE BUSTER AND BIT |
| | 08:00 - 12:00 | 4.00 | TRP | 10 | TRIP INTO SHOE WITH BIT #19 |
| | 12:00 - 13:30 | 1.50 | CIRC | 1 | CIRCULATE TOP OF ECD PILL OUT |
| 11/2/2008 | 13:30 - 14:30 | 1.00 | TRP | 10 | TRIP IN TO 13,320' TIGHT HOLE |
| | 14:30 - 06:00 | 15.50 | REAM | 1 | WASH AND REAM F/13,320' TO 15500' |
| | 06:00 - 14:30 | 8.50 | REAM | 1 | REAM F/15500' TO 16761' |
| | 14:30 - 16:00 | 1.50 | DRL | 1 | DRILL F/16761' TO 16769' WOB 15, ROT 60, GPM 230 |
| | 16:00 - 16:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 16:30 - 06:00 | 13.50 | DRL | 1 | DRILL F/16769' TO 16868' WOB 15, ROT 50/65, GPM 210 LOST 40 BBLS IN FRACTURE 16867' |
| 11/3/2008 | 06:00 - 07:00 | 1.00 | CIRC | 1 | CIRCULATE, PUMP DRY PIPE PILL, CHECK FOR FLOW |
| | 07:00 - 13:00 | 6.00 | TRP | 10 | TRIP OUT BIT # 19 |
| | 13:00 - 13:30 | 0.50 | TRP | 1 | LAY DOWN TORQUE BUSTER AND CHANGE OUT BIT |
| | 13:30 - 18:30 | 5.00 | TRP | 10 | TRIP TO SHOE |
| | 18:30 - 19:30 | 1.00 | RIG | 6 | SLIP AND CUT DRILLING LINE |
| | 19:30 - 20:00 | 0.50 | RIG | 1 | RIG SERVICE |
| | 20:00 - 22:00 | 2.00 | TRP | 10 | TRIP IN BIT #20 |
| | 22:00 - 23:00 | 1.00 | REAM | 1 | WASH AND REAM LAST STD TO BOTTOM |
| | 23:00 - 00:30 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP CHANGE OUT ROTATING HEAD RUBBER |
| | 00:30 - 06:00 | 5.50 | DRL | 1 | DRILL F/16868' TO 16920' WOB 16, ROT 55, GPM 230 |
| 11/4/2008 | 06:00 - 21:00 | 15.00 | DRL | 1 | DRILL F/ 16,920 T/ 17,016. 96 FT, 6.4 FPH DRILLED INTO FRACTURE @ 17,013, STALLED WHEN ATTEMPTING T/ |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 11/4/2008 | 06:00 - 21:00 | 15.00 | DRL | 1 | RESTART. DRILLED T/ 17,016. |
| | 21:00 - 22:00 | 1.00 | SUR | 1 | DROP SURVEY. ATTEMPT T/ PUMP SLUG. |
| | | | | | STRING PRESSURED UP, NO CIRCULATION. CHECK SURFACE EQUIPMENT, DP SCREEN, ETC. N/G |
| | 22:00 - 02:00 | 4.00 | FISH | 4 | WAIT ON WIRELINE TRUCK |
| 11/5/2008 | 02:00 - 06:00 | 4.00 | FISH | 4 | SAFETY MEETING, R/U D.C.T. WIRELINE & RIH W/ SURVEY RETRIEVING TOOL |
| | 06:00 - 09:30 | 3.50 | FISH | 4 | RIH W/ DCT WIRELINE. ATTEMPT TO JAR MULTI-SHOT SURVEY TOOL FREE. NO PROGRESS. POH. |
| | 09:30 - 16:30 | 7.00 | FISH | 4 | MK UP 5 SHOT 1/4" PERF GUN. RIH. PERF GUN DID NOT FIRE. MK UP 9 SHOT 1/8" PERF GUN. RIH. PERFORATE 1ST DRILL COLLAR ABOVE MONEL. |
| | 16:30 - 17:00 | 0.50 | FISH | 4 | R/D W/L TRUCK. |
| 11/6/2008 | 17:00 - 17:30 | 0.50 | REAM | 2 | WASH 130 FT T/ BTM. |
| | 17:30 - 19:30 | 2.00 | CIRC | 1 | CIRCULATE / CONDITION @ 4.8 BPM. 6,590 UNITS, 35 FT FLARE. |
| | 19:30 - 02:30 | 7.00 | TRP | 10 | PUMP SLUG. TOH F/ NEW BIT. |
| | 02:30 - 06:00 | 3.50 | TRP | 1 | L/D PERFORATED DC, WIRELINE TOOLS & REMOVE SURVEY TOOL F/ BIT SUB |
| 11/6/2008 | 06:00 - 14:00 | 8.00 | TRP | 10 | TRIP IN HOLE FILL EVERY 5 ROWS, BREAK CIRCULATION FOR 5-10 MINUTES |
| | 14:00 - 15:00 | 1.00 | CIRC | 1 | CIRCULATE OUT TRIP SLUG |
| | 15:00 - 16:00 | 1.00 | TRP | 10 | TRIP IN HOLE TO 16,855 TO |
| | 16:00 - 17:00 | 1.00 | OTH | | INSTALL ROTATING HEAD AND CHANGE OUT ROTATING HEAD |
| 11/7/2008 | 17:00 - 18:00 | 1.00 | REAM | 1 | WASH FROM 16,855 TO 17,016 (NO HOLE FILL) |
| | 18:00 - 01:30 | 7.50 | DRL | 1 | DRILL 17,016 TO 17,070 (ROP 7.2' HR) WOB 14, DHRPM 52, MW 14.9, VIS 49, BG GAS 380 |
| | 01:30 - 03:00 | 1.50 | CIRC | 5 | CIRCULATE UP SAMPLE |
| | 03:00 - 04:00 | 1.00 | TRP | 14 | SHORT TRIP 10 STANDS |
| 11/7/2008 | 04:00 - 06:00 | 2.00 | CIRC | 1 | CIRCULATE BOTTOMS UP AND SPOT ECD SLUG |
| | 06:00 - 06:30 | 0.50 | CIRC | 1 | SPOT ECD SLUG 150 BBL.S OF 15.8 PPG IN OPEN HOLE |
| | 06:30 - 14:00 | 7.50 | TRP | 2 | TRIP OUT OF TO LOG HOLE |
| | 14:00 - 06:00 | 16.00 | LOG | 1 | RUN OPEN HOLE LOGGS, PLAT FORM EXPRESS, OBMI LOG, IN CASING SONIC, NEUTRON LOG IN CASING FROM SHOE TO 5,000' AND GAMMA RAY FROM SHOE TO SURFACE |
| 11/8/2008 | 06:00 - 09:30 | 3.50 | LOG | 2 | LOG SONIC/ |
| | 09:30 - 16:00 | 6.50 | TRP | 15 | TRIP IN HOLE TO SHOE |
| | 16:00 - 17:00 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP @ SHOE |
| | 17:00 - 19:30 | 2.50 | TRP | 15 | TRIP IN HOLE TO 16,986 |
| 11/8/2008 | 19:30 - 20:00 | 0.50 | REAM | 1 | WASH FROM 16,986 TO 17,070 (NO FILL) |
| | 20:00 - 23:30 | 3.50 | CIRC | 1 | CIRCULATE OUT ECD SLUG AND CONDITION HOLE TO RUN CASING (LOST 70 BBL.S CIRCULATING OUT ECD SLUG @ SLOW PUMP RATE, PUMP TRIP SLUG 75 BBL.S 15.5 |
| | 23:30 - 01:00 | 1.50 | TRP | 2 | TRIP OUT TO CASING SHOE TO LAY DOWN DRILL PIPE HOLE TOOK ONLY 4 BBL.S OF FILL, CHECK FOR FLOW @ 13,900 AND 11950--NO FLOW BOTH TIMES |
| | 01:00 - 04:00 | 3.00 | CIRC | 1 | RIG UP L/D TRUCK--CHECKED FLOW BEFORE L/D DRILL PIPE, WELL FLOWING 1/4" STREAM, CIRCULATE BOTTOMS UP @ SHOE AND SPOT ECD SLUG (98 BBL.S 15.9 PPG) |
| 11/9/2008 | 04:00 - 04:30 | 0.50 | TRP | 3 | LAY DOWN 24 JT'S 4" DP (STOP AND CHECK FOR FLOW) |
| | 04:30 - 05:00 | 0.50 | OTH | | MONITOR WELL FOR FLOW WELL FLOWING 7 BBL.S HR, FLOW NOT SLOWING DOWN (POSSIBLE BALLONING) |
| | 05:00 - 06:00 | 1.00 | TRP | 1 | PICK UP 24 JT'S DRILL PIPE, AND RUN IN HOLE WITH STANDS IN DERRICK |
| | 06:00 - 06:30 | 0.50 | TRP | 1 | PICK UP JT'S DRILL PIPE (WELL FLOWING) |
| 11/9/2008 | 06:30 - 08:00 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP @ SHOE (11,963) PEAK GAS 9087 UNITS, 6' FLARE |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name: UNIT

Spud Date: 8/22/2008
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/9/2008 | 08:00 - 09:00 | 1.00 | TRP | 2 | TRIP IN HOLE 27 STANDS (HALF WAY IN OPEN HOLE) |
| | 09:00 - 10:30 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP @ 14,561 PEAK GAS 6,945 UNITS, 12' FLARE |
| | 10:30 - 11:30 | 1.00 | TRP | 2 | TRIP IN HOLE TO 17,070 |
| | 11:30 - 15:00 | 3.50 | CIRC | 1 | CIRCULATE BOTTOMS UP AND SPOT ECD SLUG (160 BBL.S 16.0 PPG) PEAK GAS 6,692 UNITS, 6' FLARE |
| | 15:00 - 17:30 | 2.50 | TRP | 2 | TRIP OUT TO SHOE TO L/D DRILL PIPE 54 STANDS |
| | 17:30 - 01:00 | 7.50 | TRP | 3 | LAY DOWN 4" DRILL PIPE |
| | 01:00 - 01:30 | 0.50 | OTH | | FIX DRILLING LINE RATS NEST ON DRUM |
| | 01:30 - 03:00 | 1.50 | TRP | 2 | TRIP IN HOLE 54 STANDS OUT OF DERRICK |
| 11/10/2008 | 03:00 - 06:00 | 3.00 | TRP | 3 | LAY DOWN 4" DRILL PIPE |
| | 06:00 - 09:30 | 3.50 | TRP | 3 | LAY DOWN 4" DRILL PIPE AND BHA |
| | 09:30 - 10:30 | 1.00 | OTH | | PULL WEAR BUSHING |
| | 10:30 - 12:00 | 1.50 | CSG | 1 | RIG UP CASING CREW (ROCKY MOUNTAIN) |
| | 12:00 - 21:00 | 9.00 | CSG | 2 | RUN 4 1/2" CASING TO CASING SHOE 11, |
| | 21:00 - 21:30 | 0.50 | OTH | | INSTALL ROTATING HEAD RUBBER |
| | 21:30 - 22:30 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP @ SHOE |
| | 22:30 - 23:30 | 1.00 | CSG | 2 | RUN 4 1/2 CASING TO 14,519 |
| | 23:30 - 01:00 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP @ 14,519 BACK GROUND GAS 4835 UNITS, 20' FLARE |
| | 01:00 - 01:30 | 0.50 | OTH | | CHANGE OUT PACKER ON FILL TOOL |
| 11/11/2008 | 01:30 - 03:30 | 2.00 | CSG | 2 | RUN 4 1/2" CASING TO BOTTOM TAGGED BOTTOM AND LAND CASING 2' OFF BOTTOM 17,068 |
| | 03:30 - 04:30 | 1.00 | CSG | 1 | RIG DOWN CASING CREW |
| | 04:30 - 06:00 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP @ 14,068 @ 30 STRKS, PUMPING SLOW MUD SEEPING |
| | 06:00 - 07:00 | 1.00 | CIRC | 1 | CIRCULATE TO CEMENT 4 1/2" CASING |
| | 07:00 - 07:30 | 0.50 | CSG | 1 | RIG DOWN CASING FILL TOOL |
| | 07:30 - 08:00 | 0.50 | CMT | 1 | HOLD SAFETY MEETING AND RIG UP CEMENTERS/CEMENT HEAD |
| | 08:00 - 11:30 | 3.50 | CMT | 2 | CEMENT 4 1/2 " CASING 40 BBL.S 15.0# TUNED SPACER, 222 BBL.S OF MNT "G" 15.2 CEMENT, DISPLACED 240 BBL.S OF CLAY FIX WATER, PLUG BUMPED AND HELD 20 MIN., FLOATS HELD (6.5 BBL.S BACK), |
| | 11:30 - 12:30 | 1.00 | CMT | 1 | RIG DOWN CEMENTERS |
| | 12:30 - 17:00 | 4.50 | BOP | 1 | PULL DRIP PANS, FLOW LINE, NIPPLE DOWN BOP, PICK UP BOPE LIFT RAILS IN SUB, |
| | 17:00 - 18:00 | 1.00 | CSG | 7 | SET SLIPS (220,000# IN SLIPS) ROUGH CUT CASING |
| 11/12/2008 | 18:00 - 20:00 | 2.00 | BOP | 1 | SET BOPE DOWN AND NIPPLE DOWN BOPE, BREAK DOWN FOR RIG MOVE |
| | 20:00 - 22:30 | 2.50 | OTH | | RIG DOWN TOP DRIVE, BREAK ALL CONNECTIONS, L/D DOWN TONGS-ROTARY TOOLS |
| | 22:30 - 02:30 | 4.00 | BOP | 1 | RIG UP STRONG BACK TO PICK UP BOPE, TAKE ROTATING HEAD OFF ANNULAR-WELL IS FLOWING 1/4" STREAM-PICK BOPE TO SET PACK OFF SET BOP DOWN, 750 PSI AND BACK SIDE OF 7" CASING |
| | 02:30 - 06:00 | 3.50 | OTH | | RIG DOWN TOP DRIVE AND RIG FLOOR (ROTARY TOOLS)/ MONITORING WELL 750 PSI ON CASING @ 0430 AM, 975 PSI @ 0600 AM |
| | 06:00 - 12:00 | 6.00 | OTH | | RIG DOWN TOP DRIVE RAIL, SERVICE LOOP ON TOP DRIVE, CLEAN AROUND RIG PITS, SHAKERS |
| | 12:00 - 06:00 | 18.00 | LOC | 4 | RIG DOWN RIG FLOOR, BRIDLE UP, BREAK LINES APART ON TANKS, PUMPS, PULL CORDS, KOOMY LINES, BREAK FLOW LINE, RAISE CAT-A-LEVER CAT WALK, RIG DOWN TUGGERS, CHOKE LINE, DRAIN CENTRIFACAL PUMPS |
| | | | | | PULLED FLOOR PLATES. LAYED DN DERRICK, UNSTRUNG BLOCKS. PULL ELECTRICAL LINES AND BREAK LINES. PICK MUD CLEANING EQUIPMENT F/ MUD PITS. CLEANING OBM F/ RIG COMPONENTS. STAGED OUT FUEL TANK, MOTOR PACKAGE, TWO MUD TANKS, HOPPER HOUSE, PARTS HOUSE. ONE BED TRUCK, ONE POLE TRUCK AND ONE CRANE ON LOCATION. |
| | | | | | |
| | | | | | |
| | | | | | |
| 11/13/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | |

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Operations Summary Report

Well Name: GH 6-20-8-21
Location: 20- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 8/22/2008
Rig Release:
Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/13/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | SECOND CRANE AND ROAD TRUCKS DUE ON LOCATION IN THE AM. |
| | 18:00 - 06:00 | 12.00 | LOC | 4 | NOTE: BLED OFF 1,200 PSI FROM BACK SIDE OF CASING, 0 PRESSURE. |
| 11/14/2008 | 06:00 - 18:00 | 12.00 | LOC | 4 | WAIT ON DAYLIGHTS |
| | 18:00 - 06:00 | 12.00 | | | SET DERRICK OFF FLOOR. FINISHED PULLING OUT BACK YARD. STEAM |
| | | | | | CLEANING RIG COMPONENTS. HAULED 13 LOADS T/ MESA. 98% RIGGED DN |
| | | | | | WILL UNSTACK SUBS, PULL BOP, AND UN PIN DERRICK TOMORROW |
| | | | | | WAIT ON DAYLIGHTS |

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Operations Summary Report - COMPLETION

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name:

Spud Date: 8/22/2008
 Rig Release:
 Rig Number:

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|--|
| 11/18/2008 | 08:00 - 14:00 | 6.00 | LOG | 2 | MIRU OWP ELU. MU AND RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS AND TAG CORRELATED PBTD AT 17,046' (FC @ 17,066'). PRESSURE UP TO 4,000 PSI AND LOG UP TO 7,000'. BLEED PRESSURE TO ZERO AND POOH. RDMO ELU. EST. TOC AT 7,700'. BHT= 326". |
| 11/29/2008 | 08:00 - 14:00 | 6.00 | PERF | 2 | SPOT IPS FBE. |
| 11/30/2008 | 09:00 - 13:00 | 4.00 | PERF | 2 | MIRU IPS FB AND OWP ELU. MU & RIH WITH 2.5" GUNS. SHOOT 90 HOLES FROM 16,527' TO 17,040'. 500 PSI WHEN GUNS WERE FIRED. 900 PSI WITH GUNS AT SURFACE. |
| 12/1/2008 | 13:00 - 19:00 | 6.00 | STIM | 2 | MIRU HES FRAC EQUIPMENT. |
| | 06:00 - 07:30 | 1.50 | STIM | 3 | FRAC STAGE #1 WITH 1,543 BBLS 35# HYBOR-G CARRYING 52,545 LBS 30/50 TLC AND 28,648 LBS 30/50 SINTERLITE SAND FROM .5 TO 4 PPA. AVG RATE= 47.8 BPM. AVG PSI= 10,106. |
| | 07:30 - 11:50 | 4.33 | PERF | 2 | STAGE #2. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 16,390' WITH 8,000 PSI. SHOOT 42 HOLES FROM 15,781' TO 16,370'. |
| | 11:50 - 13:15 | 1.42 | STIM | 3 | FRAC STAGE #2 WITH 2,428 BBLS SLICKWATER CARRYING 30,284 LBS 30/50 TLC AND 13,735 LBS 30/50 SINTERLITE SAND. AVG RATE= 43.6 BPM. AVG PSI = 10,670. |
| | 13:15 - 16:30 | 3.25 | PERF | 2 | STAGE #3. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 15,690' WITH 8,500 PSI. SHOOT 42 HOLES FROM 14,891' TO 15,665'. |
| | 16:30 - 21:20 | 4.83 | STIM | 3 | FRAC STAGE #3 WITH 2,223 BBLS SLICKWATER CARRYING 33,817 LBS 30/50 TLC SAND. AVG RATE= 37.4 BPM. AVG PSI= 10,953. SCREENED OUT IN 13 # STAGE. PLACED 17 SKS IN WELLBORE. FLOWED WELL BACK TO CLEAN OUT WELLBORE. |
| | 21:20 - 23:45 | 2.42 | PERF | 2 | BACK WELL DOWN WITH 220 BBLS STAGE #4. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET PLUG AT 14,800' WITH 8,300 PSI. SHOOT 42 HOLES FROM 14,013' TO 14,779'. |
| | 23:45 - 01:15 | 1.50 | STIM | 3 | FRAC STAGE # 4 WITH 2,522 BBLS SLICKWATER CARRYING 42,501 LBS 30/50 TLC SAND. AVG RATE= 39.5 BPM. AVG PSI = 9,858. |
| | 01:15 - 03:20 | 2.08 | PERF | 2 | STAGE #5. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 13,920' WITH 7,200 PSI. SHOOT 42 HOLES FROM 13,737' TO 13,898'. |
| | 03:20 - 04:45 | 1.42 | STIM | 3 | FRAC STAGE # 5 WITH 2,840 BBLS SLICKWATER CARRYING 5,000 LBS 100 MESH & 42,111 LBS 30/50 TLC SAND. AVG RATE= 43.0 BPM. AVG PSI = 9,527. |
| | 04:45 - 07:00 | 2.25 | PERF | 2 | STAGE #6. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET PLUG AT 13,620' WITH 7,000 PSI. SHOOT 42 HOLES FROM 12,842' TO 13,598'. |
| | 07:00 - 08:15 | 1.25 | STIM | 3 | FRAC STAGE # 6 WITH 2,442 BBLS SLICKWATER CARRYING 22,800 LBS 30/50 WHITE AND 19,300 LBS 30/50 TLC SAND. AVG RATE= 43.3 BPM. AVG PSI = 8,031 . |
| | 08:30 - 10:40 | 2.17 | PERF | 2 | STAGE # 7 RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 12,730' WITH 5,800 PSI. SHOOT 36 HOLES FROM 12,157' TO 12,704'. |
| | 10:40 - 11:55 | 1.25 | STIM | 3 | FRAC STAGE #7 WITH 2,477 BBLS SLICKWATER CARRYING 25,600 LBS 30/50 WHITE AND 19,400 LBS 30/50 TLC SAND. AVG RATE= 45.2 BPM. AVG PSI = 6,975. |
| | 11:55 - 13:30 | 1.58 | PERF | 2 | STAGE #8. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 11,680' WITH 4,900 PSI. SHOOT 33 HOLES FROM 11,318' TO 11,650'. |
| | 13:30 - 15:50 | 2.33 | STIM | 3 | FRAC STAGE #8 WITH 2,898 BBLS SLICKWATER CARRYING 57,600 LBS 30/50 WHITE AND 17,200 LBS 30/50 TLC SAND. AVG RATE= 46 BPM. AVG PSI = 6,300. |
| | 15:50 - 16:20 | 0.50 | PERF | 2 | STAGE #9. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET PLUG AT 11,264' WITH 3,800 PSI. SHOOT 39 HOLES FROM 10,716' TO 11,230'. |
| | 16:25 - 17:38 | 1.22 | STIM | 3 | FRAC STAGE #9 WITH 2,887 BBLS SLICKWATER CARRYING 54,000 LBS 30/50 WHITE AND 13,100 LBS 30/50 TLC SAND. AVG RATE= 41 BPM. AVG PSI = 5,660. |
| | 17:45 - 19:00 | 1.25 | PERF | 2 | STAGE #10. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CBP. SET |

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Operations Summary Report

Well Name: GH 6-20-8-21
 Location: 20- 8-S 21-E 26
 Rig Name:

Spud Date: 8/22/2008
 Rig Release:
 Rig Number:

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 12/2/2008 | 17:45 - 19:00 | 1.25 | PERF | 2 | PLUG AT 10,455' WITH 3,700 PSI. SHOOT 30 HOLES FROM 10,209' TO 10,435'. FRAC STAGE #10 WITH 2,247 BBLS SLICKWATER CARRYING 35,426 LBS 30/50 WHITE AND 17,529 LBS 30/50 PRC SAND. AVG RATE= 40.5 BPM. AVG PSI = 5,252. |
| | 19:17 - 20:30 | 1.22 | STIM | 3 | |
| | 20:30 - 21:30 | 1.00 | PERF | 2 | STAGE #11. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 9,236' WITH 3,400 PSI. SHOOT 21 HOLES FROM 9,095' TO 9,219'. FRAC STAGE #11 WITH 658 BBLS SLICKWATER CARRYING 25,743 LBS 30/50 WHITE AND 13,808 LBS 30/50 PRC SAND. AVG RATE= 40 BPM. AVG PSI = 6,036. |
| | 21:36 - 21:57 | 0.35 | STIM | 3 | |
| | 22:05 - 23:05 | 1.00 | PERF | 2 | STAGE #12. RU OWP ELU. MU & RIH WITH 2.5" GUNS AND 3.44" CFP. SET PLUG AT 7730' WITH 3,100 PSI. SHOOT 27 HOLES FROM 7,062' TO 7,712'. FRAC STAGE #12 WITH 754 BBLS SLICKWATER CARRYING 38,499 LBS 30/50 WHITE AND 26,020 LBS 20/40 PRC SAND. AVG RATE= 45.0 BPM. AVG PSI = 4,593. |
| | 23:05 - 23:30 | 0.42 | STIM | 3 | |
| 12/3/2008 | 23:30 - 03:00 | 3.50 | LOC | 4 | RDMO OWP ELU AND HES FRAC EQUIPMENT. |
| | 06:00 - 19:30 | 13.50 | DRL | 6 | MIRU IPS CTU, GCDOE AND SPIRIT FLUIDS. LOAD CT WITH 110" WATER. MU QES 2 7/8" MOTOR/JARS AND 3.55" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI. RIH AND DRILL OUT 11 PLUGS IN 6.5 HOURS TO PBDT DEPTH OF 17,066'. PUMP FINAL SWEEP AND POOH. RDMO IPS CTU, GCDOE & SPIRIT FLUIDS. |
| 12/4/2008 | 19:30 - 06:00 | 10.50 | PTST | 2 | FLOWING TO SALES THROUGH IPS FBE. |
| 12/5/2008 | 19:30 - 06:00 | 10.50 | PTST | 2 | FLOWING TO SALES THROUGH IPS FBE. |
| 12/6/2008 | 19:30 - 06:00 | 10.50 | PTST | 2 | FLOWING TO SALES THROUGH IPS FBE. |
| 12/7/2008 | 06:00 - 06:00 | 24.00 | PTST | 2 | FLOWING TO SALES THROUGH IPS FBE. RDMO IPS FBE. |

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvt.,
Other: _____

2. Name of Operator
Questar Exploration & Production Co.

3. Address 11002 EAST 17500 SOUTH - VERNAL, UT 84078

3a. Phone No. (include area code)
435.781.4342 - Dahn Caldwell

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 1956' FNL, 1688' FWL, SENW, SEC 20-T8S-R21E

At top prod. interval reported below
1956' FNL, 1688' FWL, SENW, SEC 20-T8S-R21E

At total depth 1956' FNL, 1688' FWL, SENW, SEC 20-T8S-R21E

14. Date Spudded
08/22/200815. Date T.D. Reached
11/05/200816. Date Completed 12/03/2008
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)*
4708' KB18. Total Depth: MD 17,070'
TVD19. Plug Back T.D.: MD 17,066'
TVD20. Depth Bridge Plug Set: MD N/A
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMP NEUTRON/3 DETECTOR LITHO, CBL, ACOUSTIC CB/GR/CCL/TEMP22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|----------------------|------------------------------|-------------------|--------------|---------------|
| 17-1/2" | 13-3/8" | 68# | | 510' | | 500 SXS | | SURF - CIRC | |
| 12-1/4" | 9-5/8" | 47# | | 5,439' | | 1,985 SXS | | SURF - UNK | |
| 8-1/2" | 7" | 26#/29# | | 11,983' | | 1,285 SXS | | SURF - UNK | |
| 6-1/8" | 4-1/2" | 15.1/16.6 | | 17,068' | | 750 SXS | | 7,700' - LOG | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| N/A | | N/A | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|-----------------------|-----|--------|---------------------|------|-----------|--------------|
| A) SEE ATTACHMENT ONE | | | SEE ATTACHMENT ONE | | | |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

| Depth Interval | Amount and Type of Material |
|--------------------|-----------------------------|
| SEE ATTACHMENT ONE | SEE ATTACHMENT ONE |
| | |
| | |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 12/3/08 | 12/7/08 | 24 | → | 0 | 4,418 | 1,699 | | | FLOWING |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| 30/64 | N/A | 1,270 | → | | | | | PRODUCING | |

28a. Production - Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | → | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| | | | → | | | | | | |

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | → | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| | | | → | | | | | | |

28c. Production - Interval D

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | → | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| | | | → | | | | | | |

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top |
|-------------|--------|--------|------------------------------|-------------|-------------|
| | | | | | Meas. Depth |
| GREEN RIVER | 2375' | | | MANCOS 'B' | 12995' |
| MAHOGANY | 3347' | | | FRONTIER | 15780' |
| WASATCH | 6010' | | | DAKOTA SILT | 16701' |
| MESA VERDE | 9185' | | | DAKOTA | 16906' |
| CASTLEGATE | 11767' | | | | |
| BLACK HAWK | 12071' | | | | |
| MANCOS | 12511' | | | | |

32. Additional remarks (include plugging procedure):

FUTURE OIL PROSPECTS - GREEN RIVER & MAHOGANY

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
☒ Other: PERFORATION & FRACING REPORT

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) JIM SIMONTON

Title COMPLETION SUPERVISOR

Signature

Jim Simonton (dfc)

Date 02/03/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

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GH 6 20-8-21 – ATTACHMENT ONE
PERFORATION DETAIL:

| <u>Open Perfs</u> | <u>Stimulation</u> | | | | | <u>Perf Status</u> |
|-------------------|--------------------|--------|--------|---------|------|--------------------|
| 7062' – 7063' | Frac w/ | 64,519 | Lbs in | 31,668 | Gals | Open - Wasatch |
| 7078' – 7079' | | | | | | Open - Wasatch |
| 7087' – 7088' | | | | | | Open - Wasatch |
| 7096' – 7097' | | | | | | Open - Wasatch |
| 7220' – 7221' | | | | | | Open - Wasatch |
| 7225' – 7226' | | | | | | Open - Wasatch |
| 7367' – 7368' | | | | | | Open - Wasatch |
| 7370' – 7371' | | | | | | Open - Wasatch |
| 7711' – 7712' | | | | | | Open - Wasatch |
| 9095' – 9096' | Frac w/ | 39,551 | Lbs in | 27,636 | Gals | Open - Wasatch |
| 9114' – 9115' | | | | | | Open - Wasatch |
| 9165' – 9166' | | | | | | Open - Wasatch |
| 9176' – 9177' | | | | | | Open - Wasatch |
| 9200' – 9201' | | | | | | Open - Wasatch |
| 9206' – 9207' | | | | | | Open - Wasatch |
| 9218' – 9219' | | | | | | Open - Wasatch |
| 10209' – 10210' | Frac w/ | 52,955 | Lbs in | 94,374 | Gals | Open - LMV |
| 10218' – 10219' | | | | | | Open - LMV |
| 10224' – 10225' | | | | | | Open - LMV |
| 10282' – 10283' | | | | | | Open - LMV |
| 10290' – 10291' | | | | | | Open - LMV |
| 10314' – 10315' | | | | | | Open - LMV |
| 10332' – 10333' | | | | | | Open - LMV |
| 10426' – 10427' | | | | | | Open - LMV |
| 10430' – 10431' | | | | | | Open - LMV |
| 10434' – 10435' | | | | | | Open - LMV |
| 10716' – 10717' | Frac w/ | 67,100 | Lbs in | 121,254 | Gals | Open - LMV |
| 10758' – 10759' | | | | | | Open - LMV |
| 10764' – 10765' | | | | | | Open - LMV |
| 10768' – 10769' | | | | | | Open - LMV |
| 10840' – 10841' | | | | | | Open - LMV |
| 10846' – 10847' | | | | | | Open - LMV |
| 10886' – 10887' | | | | | | Open - LMV |
| 11078' – 11079' | | | | | | Open - LMV |
| 11090' – 11091' | | | | | | Open - LMV |
| 11098' – 11099' | | | | | | Open - LMV |
| 11216' – 11217' | | | | | | Open - LMV |
| 11220' – 11221' | | | | | | Open - LMV |
| 11229' – 11230' | | | | | | Open - LMV |

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| | | | | | | | |
|-----------------|---|---------|--------|--------|---------|------|------------------|
| 11318' – 11319' | } | | | | | | Open - LMV |
| 11328' – 11329' | | | | | | | Open - LMV |
| 11360' – 11361' | | | | | | | Open - LMV |
| 11383' – 11384' | | | | | | | Open - LMV |
| 11468' – 11469' | | | | | | | Open - LMV |
| 11536' – 11537' | | Frac w/ | 74,800 | Lbs in | 121,716 | Gals | Open - LMV |
| 11549' – 11550' | | | | | | | Open - LMV |
| 11610' – 11611' | | | | | | | Open - LMV |
| 11616' – 11617' | | | | | | | Open - LMV |
| 11624' – 11625' | | | | | | | Open - LMV |
| 11649' – 11650' | | | | | | | Open - LMV |
| 12157' – 12159' | } | | | | | | Open - Blackhawk |
| 12225' – 12227' | | | | | | | Open - Blackhawk |
| 12260' – 12262' | | | | | | | Open - Blackhawk |
| 12329' – 12330' | | | | | | | Open - Blackhawk |
| 12442' – 12443' | | Frac w/ | 45,000 | Lbs in | 104,034 | Gals | Open - Blackhawk |
| 12515' – 12516' | | | | | | | Open - Mancos |
| 12597' – 12598' | | | | | | | Open - Mancos |
| 12702' – 12704' | | | | | | | Open - Mancos |
| 12842' – 12844' | } | | | | | | Open - Mancos |
| 12955' – 12956' | | | | | | | Open - Mancos |
| 13039' – 13043' | | | | | | | Open - Mancos |
| 13089' – 13091' | | Frac w/ | 42,100 | Lbs in | 102,564 | Gals | Open - Mancos |
| 13306' – 13307' | | | | | | | Open - Mancos |
| 13403' – 13405' | | | | | | | Open - Mancos |
| 13596' – 13598' | | | | | | | Open - Mancos |
| 13737' – 13738' | } | | | | | | Open - Mancos |
| 13756' – 13758' | | | | | | | Open - Mancos |
| 13779' – 13783' | | | | | | | Open - Mancos |
| 13816' – 13818' | | Frac w/ | 47,111 | Lbs in | 119,280 | Gals | Open - Mancos |
| 13846' – 13848' | | | | | | | Open - Mancos |
| 13879' – 13881' | | | | | | | Open - Mancos |
| 13897' – 13898' | | | | | | | Open - Mancos |
| 14013' – 14014' | } | | | | | | Open - Mancos |
| 14117' – 14118' | | | | | | | Open - Mancos |
| 14198' – 14199' | | | | | | | Open - Mancos |
| 14286' – 14288' | | | | | | | Open - Mancos |
| 14406' – 14407' | | | | | | | Open - Mancos |
| 14458' – 14459' | | Frac w/ | 42,501 | Lbs in | 105,924 | Gals | Open - Mancos |
| 14507' – 14509' | | | | | | | Open - Mancos |
| 14586' – 14587' | | | | | | | Open - Mancos |
| 14656' – 14658' | | | | | | | Open - Mancos |
| 14777' – 14779' | | | | | | | Open - Mancos |

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| | | | | | | | |
|-----------------|---|---------|--------|--------|---------|------|--------------------|
| 14891' – 14892' | } | | | | | | Open - Mancos |
| 15024' – 15025' | | | | | | | Open - Mancos |
| 15096' – 15098' | | | | | | | Open - Mancos |
| 15228' – 15230' | | | | | | | Open - Mancos |
| 15290' – 15292' | | Frac w/ | 33,817 | Lbs in | 93,366 | Gals | Open - Mancos |
| 15446' – 15450' | | | | | | | Open - Mancos |
| 15582' – 15583' | | | | | | | Open - Mancos |
| 15664' – 15665' | | | | | | | Open - Mancos |
| 15781' – 15782' | } | | | | | | Open - Frontier |
| 15801' – 15803' | | | | | | | Open - Frontier |
| 15922' – 15924' | | | | | | | Open - Frontier |
| 16008' – 16010' | | | | | | | Open - Frontier |
| 16097' – 16099' | | Frac w/ | 44,019 | Lbs in | 101,976 | Gals | Open - Frontier |
| 16185' – 16186' | | | | | | | Open - Frontier |
| 16268' – 16270' | | | | | | | Open - Frontier |
| 16368' – 16370' | | | | | | | Open - Frontier |
| 16527' – 16532' | } | | | | | | Open - Frontier |
| 16712' – 16716' | | | | | | | Open – Dakota Silt |
| 16789' – 16790' | | | | | | | Open – Dakota |
| 16909' – 16919' | | Frac w/ | 81,193 | Lbs in | 64,806 | Gals | Open - Dakota |
| 16949' – 16951' | | | | | | | Open – Dakota 'C' |
| 17032' – 17040' | | | | | | | Open – Dakota 'C' |

CONFIDENTIAL

State of Utah
Division of Oil, Gas and Mining

ENTITY ACTION FORM - FORM 6

OPERATOR: Questar Exploration & Production Co.
ADDRESS: 11002 East 17500 South
Vernal, Utah 84078 (435)781-4342

OPERATOR ACCT. No. N-5085

| Action Code | Current Entity No. | New Entity No. | API Number | Well Name | QQ | SC | TP | RG | County | Spud Date | Effective Date |
|-------------|--------------------|----------------|--------------|--------------|------|----|----|-----|--------|-----------|----------------|
| E | 17041 | 17041 | 43-047-38662 | GH 6-20-8-21 | SENW | 20 | 8S | 21E | Uintah | 8/22/08 | 12/3/08 |

WELL 1 COMMENTS: WMMFD

2/17/08

WELL 2 COMMENTS:

WELL 3 COMMENTS:

WELL 4 COMMENTS:

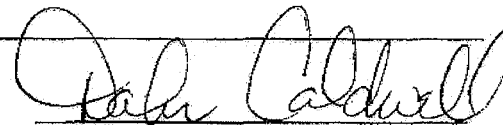
WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

(3/89)


Signature

Office Administrator 2/17/2009
Title Date

Phone No. (435)781-4342

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FEB 17 2009

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5. Lease Serial No.
UTU-0140740

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

6. If Indian, Annettee or Tribe Name

UTE TRIBE

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

QUESTAR EXPLORATION & PRODUCTION CO.

CONTACT: Mike Stahl

3a. Address

11002 EAST 17500 SOUTH, VERNAL, UTAH 84078

3b. Phone No. (include area code)

(303) 308-3613

7. If Unit of CA/Agreement, Name and/or No.

N/A

8. Well Name and No.

GH 6-20-8-21

9. API Well No.

43-047-38662

10. Field and Pool or Exploratory Area

GYPSUM HILL

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1956' FNL 1688' FWL, SENW, SECTION 20, T8S, R21E

11. Country or Parish, State

UINTAH, UTAH

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|---|---|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other <u>COMMINGLING</u> |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

In Compliance with the Administrative Utah code for drilling and operating practice R649-3-22, completion into two or more pools. Questar Exploration & Production Company hereby requests the commingling of production between intervals in the GH 6-20-8-21. Questar considers this commingling to be in the public interest in that it promotes maximum ultimate economic recovery, prevents waste, provides for orderly and efficient production of oil and gas and presents no detrimental effects from commingling the gas streams.

Questar requests approval for the commingling of production from the Dakota to the Wasatch intervals. Based upon offset production logs, the proposed initial allocation is as follows: Dakota - 10%; Mancos - 40%; Mesa Verde - 40%; Wasatch - 10%.

On an annual basis the gas will be sampled and a determination will be made of the BTU content and gas constituents. These annual samples can be used to determine if the gas allocation is changing over time. If these samples do not indicate that any adjustments in allocation are necessary they may be discontinued after the fifth anniversary of the initial production.

COPY SENT TO OPERATOR

Date: 4.14.2009

Initials: KS

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Laura Bills

Title Associate Regulatory Affairs Analyst

Signature

Laura Bills

Date 03/12/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title

Pet Eng.

Date

4/13/09

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

RECEIVED

Federal Approval Of This
Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

AFFIDAVIT OF NOTICE

STATE OF COLORADO)
) ss:
COUNTY OF DENVER)

Nathan C. Koeniger, being duly sworn, deposes and says:

1. That I am employed by Questar Exploration and Production Company in the capacity as a Landman. My business address is:

Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265

2. In my capacity as a Landman, pursuant to the provisions of Utah Administrative Rule 649-3-22, I have provided a copy of Questar Exploration and Production Company's application for completion of the GH 6-20-8-21 well into two or more pools, in the form of Utah Division of Oil, Gas and Mining's Form 9 Sundry Notice, to owners of all contiguous oil and gas leases or drilling units overlying the pools which are the subject of that application.
3. In my capacity as a Landman, I am authorized to provide such notice of Questar Exploration and Production Company's application to contiguous owners and to make this affidavit on this 4th day of March 2009.

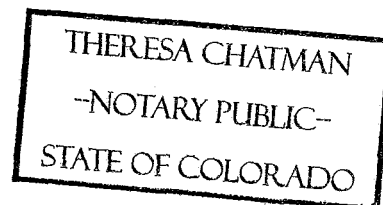


Printed Name: Nathan C. Koeniger

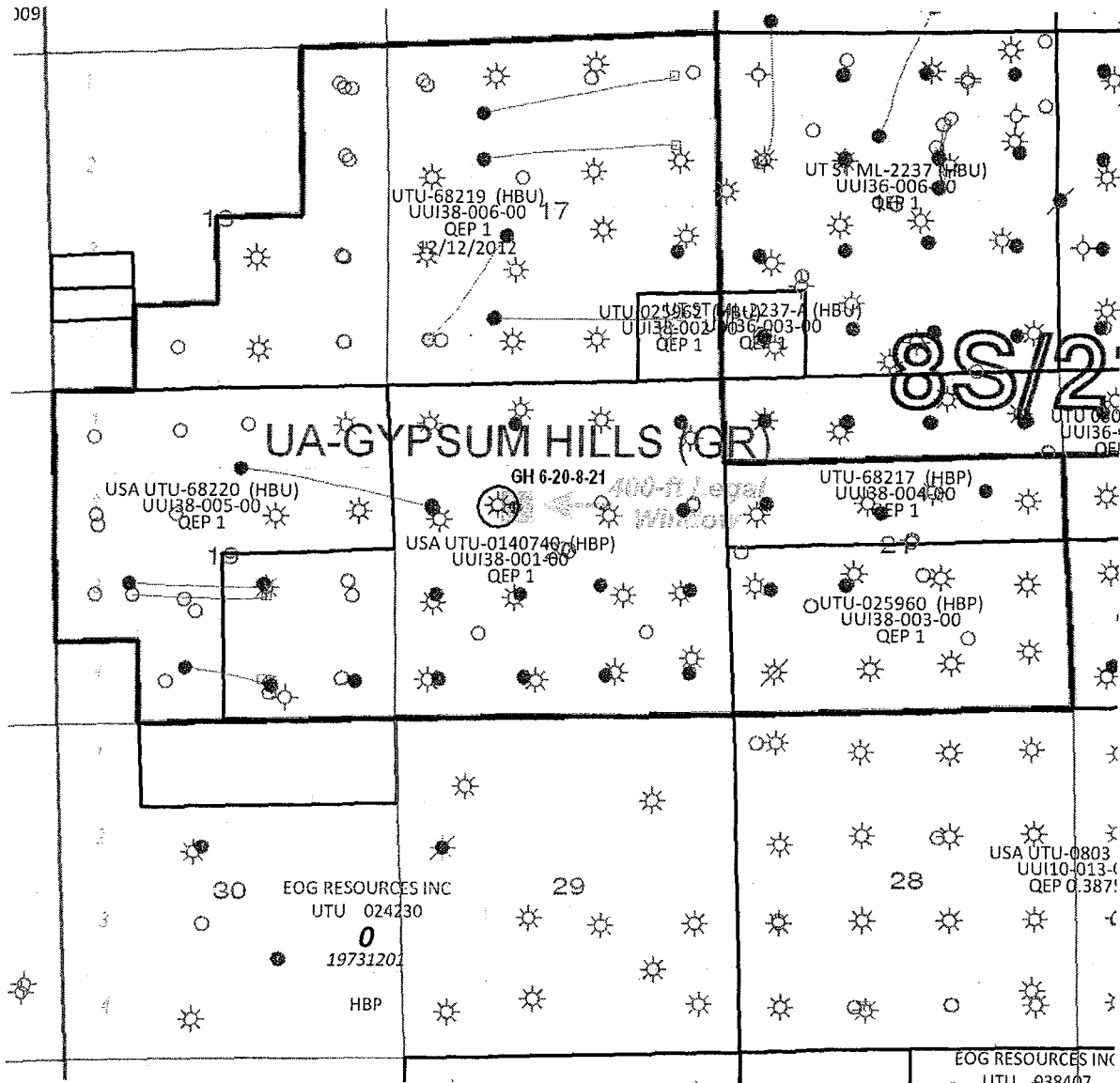
The foregoing instrument was sworn to and subscribed before me this 4th day of March 2009, by Nathan C. Koeniger.


Notary Public

MY COMMISSION EXPIRES: 7/7/11



109



T8S-R21E

○ Commingled well

Tw/Kmv COMMINGLED PRODUCTION

Uinta Basin—Uintah County, Utah

Well: GH 6-20-8-21
Lease: UTU 0140740

QUESTAR
Exploration and
Production

1050 17th St., # 500 Denver, CO 80265

Geologist:

Landman: Nate Koeniger/Chad Matney/Birgit Roesink

Date: February 17, 2009

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
 CDW

Change of Operator (Well Sold)

X - Operator Name Change

The operator of the well(s) listed below has changed, effective:

6/14/2010

| | |
|--|---|
| FROM: (Old Operator): N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048 | TO: (New Operator): N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048 |
|--|---|

| CA No. | | | | Unit: | | GYPSUM HILLS (GRRV) | | |
|--------------|-------------|--|--|--------|-----------|---------------------|-----------|-------------|
| WELL NAME | SEC TWN RNG | | | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
| SEE ATTACHED | | | | | | | | |
| | | | | | | | | |

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
- a. (R649-9-2)Waste Management Plan has been received on: Requested
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

| | | |
|--|--|--|
| SUNDRY NOTICES AND REPORTS ON WELLS | | 5. LEASE DESIGNATION AND SERIAL NUMBER: See attached |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached |
| 1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | | 7. UNIT or CA AGREEMENT NAME: See attached |
| 2. NAME OF OPERATOR: Questar Exploration and Production Company N5085 | | 8. WELL NAME and NUMBER: See attached |
| 3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 CITY: Denver STATE: CO ZIP: 80265 | | 9. API NUMBER: Attached |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached | | 10. FIELD AND POOL, OR WILDCAT: See attached |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: | | COUNTY: Attached STATE: UTAH |

| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA | | | |
|--|---|--|---|
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 6/14/2010 | <input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: Operator Name Change |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: | | | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: ~~965003033~~

Fee Land Bond Number: ~~965003033~~

BIA Bond Number: ~~799446~~ **965010693**

N3700

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

| | |
|--|---|
| NAME (PLEASE PRINT) Morgan Anderson | TITLE Regulatory Affairs Analyst |
| SIGNATURE | DATE 6/23/2010 |

(This space for State use only)

RECEIVED

JUN 28 2010

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

APPROVED **6/30/2009**

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
GYPSUM HILLS (GRRV)
effective June 14, 2010

| well_name | sec | tpw | rng | api | entity | mineral lease | type | stat | C |
|------------------|-----|------|------|------------|--------|------------------|------|------|---|
| GH 4 | 19 | 080S | 210E | 4304730028 | 5355 | Federal | OW | P | |
| GH 1-19 | 19 | 080S | 210E | 4304731065 | 5355 | Federal | OW | P | |
| GH 23-21 | 21 | 080S | 210E | 4304731541 | 5355 | Federal | OW | P | |
| GH 4-21 | 21 | 080S | 210E | 4304731826 | 5355 | Federal | OW | P | |
| GH 5-21 | 21 | 080S | 210E | 4304731827 | 5355 | Federal | OW | P | |
| GH 9 | 20 | 080S | 210E | 4304732304 | 5355 | Federal | OW | DRL | C |
| GH 11 | 20 | 080S | 210E | 4304732459 | 5355 | Federal | OW | P | |
| GH 13 | 21 | 080S | 210E | 4304732460 | 5355 | Federal | OW | P | |
| GH 14 | 20 | 080S | 210E | 4304732647 | 5355 | Federal | OW | P | |
| GH 18 | 20 | 080S | 210E | 4304732650 | 5355 | Federal | OW | P | |
| GH 19 | 20 | 080S | 210E | 4304732651 | 5355 | Federal | OW | P | |
| GH 20 | 20 | 080S | 210E | 4304732652 | 5355 | Federal | OW | P | |
| GH 16 | 20 | 080S | 210E | 4304732675 | 5355 | Federal | OW | P | |
| GH 10W-19-8-21 | 19 | 080S | 210E | 4304733528 | 12736 | Federal | GW | P | |
| GH 10G-19-8-21 | 19 | 080S | 210E | 4304733566 | 5355 | Federal | OW | P | |
| WV 11W-17-8-21 | 17 | 080S | 210E | 4304733912 | 13228 | Federal | GW | P | |
| WV 5W-17-8-21 | 17 | 080S | 210E | 4304733954 | 13332 | Federal | GW | P | |
| WV 7W-17-8-21 | 17 | 080S | 210E | 4304733956 | 13330 | Federal | GW | P | |
| GH 9W-17-8-21 | 17 | 080S | 210E | 4304734150 | 13392 | Federal | GW | P | |
| GH 16W-17-8-21 | 17 | 080S | 210E | 4304734156 | 13354 | Federal | GW | P | |
| WVX 10W-17-8-21 | 17 | 080S | 210E | 4304734561 | 13744 | Federal | GW | P | |
| GHX 15W-17-8-21 | 17 | 080S | 210E | 4304734562 | 13674 | Federal | GW | P | |
| GHX 13HG-17-8-21 | 17 | 080S | 210E | 4304734723 | 5355 | Federal | OW | P | |
| GH 1G-17-8-21 | 17 | 080S | 210E | 4304734927 | 5355 | Federal | OW | P | |
| WVX 2W-17-8-21 | 17 | 080S | 210E | 4304734928 | 14253 | Federal | GW | P | |
| WVX 8W-17-8-21 | 17 | 080S | 210E | 4304734929 | 13792 | Federal | GW | P | |
| GH 4MU-20-8-21 | 20 | 080S | 210E | 4304735068 | 14213 | Federal | GW | P | |
| GH 13MU-20-8-21 | 20 | 080S | 210E | 4304735070 | 14817 | Federal | GW | P | |
| GH 5W-20-8-21 | 20 | 080S | 210E | 4304735097 | 14557 | Federal | GW | P | |
| WVX 3MU-17-8-21 | 17 | 080S | 210E | 4304735318 | 14113 | Federal | GW | P | |
| GH 15ML-18-8-21 | 18 | 080S | 210E | 4304735323 | 15483 | Federal | GW | P | |
| GH 1ML-19-8-21 | 19 | 080S | 210E | 4304735324 | 14824 | Federal | GW | P | |
| WVX 14MU 17-8-21 | 17 | 080S | 210E | 4304735369 | 14098 | Federal | GW | P | |
| WVX 12MU-17-8-21 | 17 | 080S | 210E | 4304735370 | 15108 | Federal | GW | P | |
| WVX 8MU-19-8-21 | 19 | 080S | 210E | 4304735372 | 14241 | Federal | GW | P | |
| GH 10ML-18-8-21 | 18 | 080S | 210E | 4304735391 | 15482 | Federal | GW | P | |
| GH 8G-17-8-21 | 17 | 080S | 210E | 4304737992 | 5355 | Federal | OW | P | |
| GH 16G-17-8-21 | 17 | 080S | 210E | 4304737993 | 5355 | Federal | OW | P | |
| GH 8G-18-8-21 | 18 | 080S | 210E | 4304738661 | | Federal | GW | APD | C |
| GH 6-20-8-21 | 20 | 080S | 210E | 4304738662 | 17041 | Federal | GW | P | |

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:
3100
(UT-922)

JUL 28 2010

Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office
From: Chief, Branch of Minerals *Roy L Bankert*
Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS
UDOGM

RECEIVED

AUG 16 2010

DIV. OF OIL, GAS & MINERALS